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# **LINCOLN COUNTY MONTANA PRE-DISASTER MITIGATION PLAN**

Prepared for:

**Lincoln County  
Emergency Management Agency**  
952 East Spruce St.  
Libby, Montana 59263

Prepared by:

**Hydrometrics, Inc.**  
667 East Beckwith  
Missoula, MT 59801

&

**Arrowhead Engineering**  
Libby, MT

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# **LINCOLN COUNTY MONTANA**

## **PRE-DISASTER MITIGATION PLAN**

### **1.0 INTRODUCTION**

Natural and man-made hazards are reoccurring factors that affect the safety and economic conditions of Lincoln County residents. Historically, natural hazards including floods, high winds, severe summer storms, winter storms, wildfires, drought, and hazardous material spills have affected Lincoln County. While most hazards cannot be eliminated, the effects from them can be anticipated and mitigated. Lincoln County, working in conjunction with Montana DES, Hydrometrics, Inc. and Arrowhead Engineering have prepared this Pre-Disaster Mitigation (PDM) Plan (the Plan) to help guide future hazard mitigation activities. The Lincoln County Pre-Disaster Mitigation Plan profiles significant hazards to the community and identifies mitigation projects that can reduce their impacts. The purpose of the Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural and man caused hazards. The Lincoln County Pre-Disaster Mitigation Plan includes resources and information to assist county residents, organizations, local government, and others interested in participating in planning for natural and man caused hazards. The mitigation plan provides a list of mitigation projects that will assist Lincoln County in reducing risk and preventing loss from future hazard events.

### **1.1 AUTHORITY**

The Disaster Mitigation Act (DMA) of 2000 amends the Robert T. Stafford Disaster relief and emergency assistance act by adding a new section, 322 - Mitigation Planning. It requires all local governments to have an approved Pre-Disaster Mitigation Plan in place by November 1, 2003 to be eligible to receive Hazard Mitigation Grant Program project funding.

Lincoln County and the incorporated towns of Libby, Troy, Eureka and Rexford have adopted this Pre-Disaster Mitigation Plan. These governing bodies have the authority to promote sound public policy regarding natural and man-made hazards. Copies of the signed Resolutions from these jurisdictions are included as Appendix A to this plan. The Plan was adopted at the regularly scheduled meetings of the Libby, Troy, Eureka and Rexford city councils, and at a meeting of the Lincoln County commissioners, all of which were open to the public and advertised through the communities' typical process for publicizing public meetings.

The Lincoln County Disaster and Emergency Services (DES) Coordinator will be responsible for submitting the adopted Plan to the State Hazard Mitigation Office in Helena, Montana. The State Hazard Mitigation Officer will then submit the Plan to the Federal Emergency Management Agency (FEMA) for review. This review will address the federal criteria outlined in FEMA Interim Final Rule 44 CFR Part 201. Upon acceptance by FEMA, Lincoln County and the other plan signatories will gain eligibility for local mitigation project grants and post-disaster hazard mitigation grant projects (HMGP).

## **1.2 ACKNOWLEDGEMENTS**

Many groups and individuals have contributed to development of the Lincoln County Pre-Disaster Mitigation Plan. The local Emergency Management Agency Director, Local Emergency Planning Committee (LEPC), and the Montana State Hazard Mitigation Officer provided significant guidance and support to development of the plan. Elected officials, city and county personnel, and the local community members participated in the planning process and contributed significantly to the Plan's development. The Lincoln County Fire Steering Committee also provided important input through their independent development of a fire mitigation plan (Lincoln County, 2003).

## **1.3 PROJECT AREA LOCATION**

Lincoln County is located in northwest Montana, and has an area of 3,675 square miles. Lincoln County is bounded by Flathead County on the east, Idaho's Boundary and Bonner

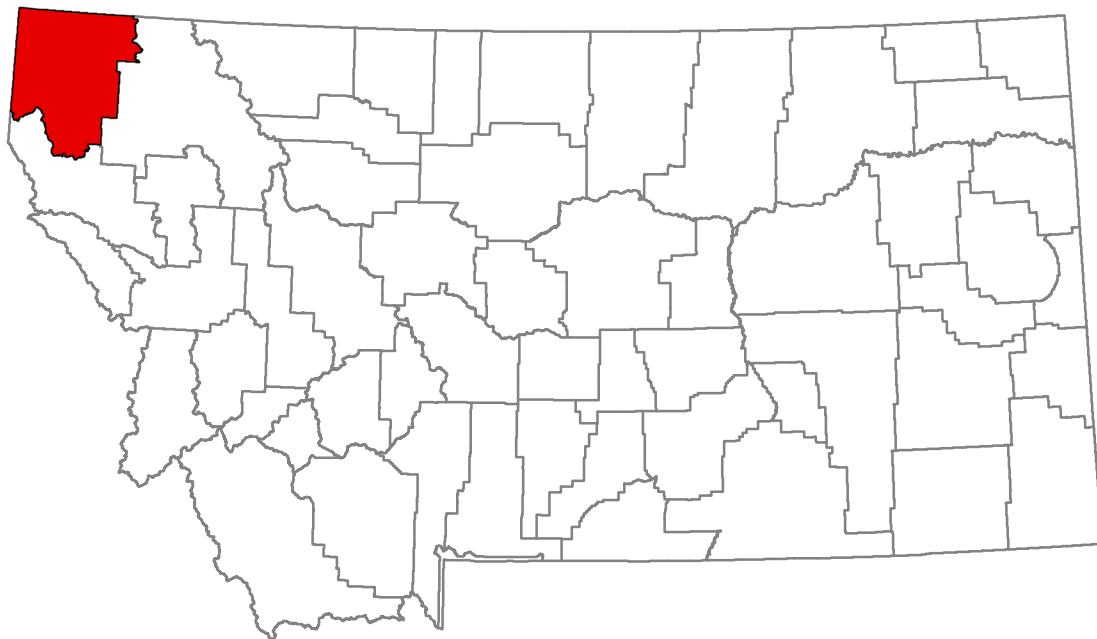
Counties on the west, Sanders County on the south, and the Canadian Province of British Columbia on the north. Libby is the county seat and incorporated towns include Libby, Troy and Eureka. The Kootenai River flows south out of Canada into Lincoln County and leaves the State west of Troy. Lake Koocanusa, a reservoir created by the Libby Dam on the Kootenai River has a length of 48 miles within Lincoln County and reaches another 42 miles into British Columbia. Figure 1-1 presents a location map of the Lincoln County Plan area.

Lincoln County geography is dominated by mountainous, forest covered terrain cut by narrow river valleys. The elevation in Lincoln County ranges from about 1,820 feet above sea level where the Kootenai River enters Idaho, to over 8,700 feet in the Cabinet Mountain Wilderness. The Yaak and Fisher Rivers are tributaries to the Kootenai and their valleys deeply dissect the surrounding mountains. The Bull River flows south and joins the Clark Fork River in Sanders County.

#### **1.4 CLIMATE AND WEATHER**


Lincoln County, Montana is located within the region generally classified as a modified west coast marine and continental climate. Summers are sometimes hot and dry and winters are cold. Mean annual precipitation averages approximately 30 inches for the Kootenai River basin, generally increases with increasing altitude, and varies from 14.5 inches/year at Eureka, to an estimated 60 or more inches on some of the higher mountains. Annual snowfall varies from about 40 inches in the lower valleys to an estimated 300 inches in some mountain areas. Most of the snow falls during the November-March period, but heavy snowstorms can occur as early as mid-September or as late as early May.

Much of the annual runoff occurs in spring with the snowmelt. The annual pre-dam hydrograph for the Kootenai River at the town of Libby, Montana shows a distinct peak in the April-July time period. Since 1972 when the Libby Dam was completed, flood flows on the Kootenai River have been modified by the dam. Relatively low runoff predominates the rest of the year, especially in the dry late summer, and in winter when much of the precipitation falls as snow and remains frozen.



 Lincoln County



0 20 40 80 120 160  
 Miles

1 inch equals 100 miles

Pre-Disaster Mitigation Plan  
Lincoln County, MT

## Location Map

Figure  
1-1

Average high and low temperatures in Libby in January are 31.5° and 15.5° F respectively. The lowest temperature recorded at Libby was -46° F. Often the coldest temperatures occur at sheltered valley locations when winds are light, but extreme wind chill situations occur almost every winter when windy conditions coincide with very low temperatures. Rapid warm-ups during the winter and early spring or rain on snow events can lead to significant snow melt and flooding of small streams and rivers and/or ice jam flood problems.

Average high temperature in July at Libby is 87.8° and the July mean low temperature is 46.1°. Both summer and winter temperatures vary considerably with elevation and local topography. Brief spells with temperatures above 100 F can occur but are often short lived. The high temperature recorded in Libby was 109° F. Extended periods with temperatures above 90 F occur every few years. Freezing temperatures can occur during any month of the year, but are rare in low elevation from June through August.

Summer thunderstorm events with heavy precipitation of up to several inches can occur and may be accompanied by high winds, hail and local flooding. Winter storms with heavy snowstorms can occur from October to April. These storms can produce up to several feet of snow and are often made more severe as temperatures are warmer, and therefore the snow is heavier and more difficult to travel in and remove. Winter storms may be accompanied by high winds resulting in blizzard conditions.

For the purposes of this hazard assessment and mitigation plan, weather is of interest when it threatens property or life and thus becomes a hazard. The National Weather Service (NWS) provides short-term forecasts of hazardous weather to the public and also records weather and climatic data. Appendix B contains a listing of historic severe weather events recorded by the NWS in Lincoln County. Of the 162 events chronicled by the NWS, 115 are winter storms, 23 are thunderstorm/hail events, 12 are floods and 9 are high winds. These historic events accounted for six deaths, three from floods and three from winter storms. There were an additional four injuries reported by the NWS, three from thunderstorms and one from a winter storm. Reported property losses from these past weather events include \$1.2 million

from winter storms, \$2.7 million from flooding and over \$1.5 million from high winds. The historic losses from these recorded and other weather events are undoubtedly higher than presented in the NWS listing and Lincoln County residents rank weather hazards as some of the most frequent and most potentially damaging of all natural disasters.

## **1.5 REGIONAL ECONOMY**

According to the 2000 census (US Bureau of Census, 2001a), the population of Lincoln County is 18,837 consisting of 7,764 households. This represents a 7.8% increase in population since the 1990 census, but is still only 5.2 persons per square miles. Population is clustered near the four incorporated communities and a few smaller unincorporated towns primarily located in the valley bottom of the Kootenai River or its larger tributaries.

Historically the Lincoln County economy was dominated the lumber, and to a lesser extent the mining, industries. However, in recent years a number of mills and mines have closed and federal and local government are now the largest employers in the county. The August 2004 unemployment rate in Lincoln County was 10.9% and has been over 10% for the last five years (Montana Department of Labor and Industry, 2001a); this places it near the highest unemployment rate in Montana. Total employment in 2000 was 8721 (U.S. Bureau of the Census, 2001b).

In 1999, 19.2% of Lincoln County residents lived below the poverty level as compared to 14.6% for the State as a whole (U.S. Bureau of the Census, 2003). Historic asbestos mining and processing at the W.R. Grace mine near Libby has resulted in a number of community wide asbestos related health issues. The current superfund listing and cleanup has a significant effect on the community, in terms of public health and the local economy.

## **1.6 SCOPE AND PLAN ORGANIZATION**

The scope of the Lincoln County Pre-Disaster Mitigation Plan includes the following:

- Identify and prioritize disaster events that are most probable and destructive;
- Identify critical facilities;

- Identify areas within the community that are most vulnerable;
- Develop goals for reducing the effects of a disaster event;
- Develop specific objectives and projects to be implemented for each goal;
- Develop procedures for monitoring progress and updating the Plan; and
- Officially adopt the Plan.

The Plan is organized into sections that describe the planning process (Section 2), risk assessment (Section 3), mitigation strategies (Section 4), and Plan maintenance (Section 5). Appendices containing supporting information are included at the end of the Plan.



## **2.0 PLANNING PROCESS**

The Lincoln County Pre-Disaster Mitigation (PDM) Plan is the result of a collaborative effort between Lincoln County citizens, public agencies, and regional, state, and federal organizations. Public participation played a key role in identifying historic disasters and setting priorities for development of goals and mitigation projects. Interviews were conducted with the Lincoln County Emergency Management Agency Director, elected officials and a number of public meetings were held to include the input of Lincoln County residents.

### **2.1 PUBLIC PARTICIPATION**

The PDM planning process was facilitated by the existence of a comprehensive list of individuals whose input was needed to help develop the Plan. This list was developed for the Local Emergency Planning Committee (LEPC) and included elected officials (County Commissioners and town mayors), the Emergency Management Agency Director, as well as the sheriff, fire managers and public works directors. Federal and State agencies on the contact list included the U.S. Forest Service, Army Corps of Engineers, U.S. Border Patrol, and Montana Department of Natural Resources and Conservation. The existence of the active, broad based LEPC group greatly facilitated the process of obtaining public input. Appendix C presents the Lincoln County contact list. Persons and entities on the contact list received a variety of information during the planning process, including project maps and documents for review, meeting notifications, and mitigation strategy documents.

### **2.2 STAKEHOLDER INPUT**

Input was sought for the PDM Plan from individuals and specialists from organizations interested in hazard management. Input was obtained during public meetings which identified common concerns related to natural and man caused hazards and identified community concerns and ideas on activities that could reduce risk. Stakeholders that provided input to the Plan included representatives from local government, fire departments, public health providers, law enforcement and utility providers. A list of meetings and contacts with Lincoln County stakeholders is presented in Appendix D.

## **2.3 PUBLIC MEETINGS**

Six public meetings were conducted in Lincoln County during initial plan development. The meetings were held in conjunction with regularly scheduled LEPC meetings. Meetings were held in Libby, Troy and Eureka to provide broad geographic coverage. Two meetings were held in Eureka on July 23, 2003 and October 22, 2003; meetings were held in Troy on August 27, 2003 and December 10, 2003; and in Libby on September 24, 2003, and on January 28, 2004. The purpose of the meetings were to gather information on historic disasters, update the list of critical facilities, and gather ideas from citizens about mitigation planning and priorities for mitigation goals. The sign-in sheet from the Lincoln County public meetings, the public notice for the meetings and meeting minutes are included in Appendix D.

In advance of the public meetings, a press release was distributed to local and regional newspapers including the Western News and the Tobacco Valley News. The local radio stations (KLCB/KTNY) were notified in advance of the meetings and provided public service announcements. Notices of the public meeting were sent in advance to all jurisdictions participating in the planning process including Libby, Troy, Eureka, Rexford and Lincoln County. Notices were sent to all stakeholders on the project contact list (Appendix C). Lincoln County DES also posted a notice on the PDM planning process and meetings on the Lincoln County website to provide an additional way to provide input to the planning process. A copy of the press release and media distribution list is included in Appendix D. Appendix D also contains copies of the press release as it appeared in the local Western News newspaper.

The City Council and County Commission meetings at which the resolutions adopting the plan were passed provided the public with the opportunity to review the final version of the plan. Copies of the local agency resolutions are contained in Appendix A.

## **2.4 PLAN REVIEW**

Review copies of the draft Plan were provided to the Emergency Management Agency Director for distribution in hard copy and on the County web site. Plan reviewers included county commissioners, mayors of the various jurisdictions, representatives of the LEPC, and other federal, state, and local officials. The Emergency Management Agency Director provided review copies of the Plan to all jurisdictions involved in the planning process including Libby, Troy, Eureka, Rexford and Lincoln County. The draft Plan was posted on the Lincoln County website. Public comments were submitted to the Emergency Management Agency Director after a 30-day review period. The Emergency Management Agency Director reviewed the comments and they were incorporated into the final Plan. Following public review of the Plan, the Plan was adopted by the local jurisdictions.

Following local adoption, the Plan was submitted to the Montana DES Hazard Mitigation Officer and the Montana FEMA representative.

Future comments or questions regarding this Plan should be addressed to:

Lincoln County Disaster and Emergency Services Coordinator  
952 East Spruce St.  
Libby, Montana 59263

### **3.0 HAZARD EVALUATION AND RISK ASSESSMENT**

Hazard identification and prioritization involved determining what hazards have in the past or are likely to cause injury, death or damage to property. Searching historical records, interviewing people with knowledge of past disasters and input from the Lincoln County LEPC and members of the public, identified hazards. An assessment of risks posed by the identified hazards was conducted to address requirements of the Disaster and Mitigation Act of 2000 (DMA 2000) for evaluating the risk to the community of the highest priority hazards. DMA 2000 requires measuring potential losses to critical facilities and property resulting from natural hazards by assessing the vulnerability of buildings and critical infrastructure to natural hazards. The risk assessment approach taken in this study evaluates risks to vulnerable populations and also examines the risk presented by man-made hazards. The goal of the risk assessment process is to determine which hazards present the greatest risk and what areas, populations or infrastructure are the most vulnerable to identified hazards.

The hazard risk assessment requires information about what hazards have historically impacted the community and what hazards may present risks in the future. The process of identifying potential hazards included review of existing hazard management tools including review of historical records of past hazard events and obtaining public input from Lincoln County residents on historic disasters. The first phase entailed interviewing local government officials and staff, local emergency planning and response staff, and the general public. Section 2.3 describes the public participation and public input process in detail. The second phase entailed researching government records and news publications for records of previous hazard events. The results of the initial hazard evaluation were used to focus further risk assessment on hazards that historically had caused the most problems and those judged to be of most future concern.

The risk assessment approach used for the Lincoln County Pre-Disaster Mitigation Plan used Lincoln County's Geographic Information System (GIS) system and the FEMA Hazus system to map population centers, structures, and critical facilities and to evaluate those potential hazards to the identified critical facilities in the county. This type risk assessment

approach is very dependent on the detail and accuracy of the data used during the analysis. The schedule and resources available for conducting this risk assessment dictated that existing data be used to perform the assessment. The existing information available is extensive but also has many limitations. The data limitations mean that it is important to recognize the relative nature of the risk comparisons of areas within Lincoln County.

### **3.1 HISTORICAL HAZARDS**

Lincoln County has historically and will in the future be affected by many types of natural and human caused hazards. Examples of natural hazards that have the potential to impact the region include earthquakes, flooding, wildfire, severe winter storms, high wind, and landslides, among others. Potential human caused hazards include explosions, urban fires, uncontrolled chemical or hazardous material release (either at a fixed location or in transit), power outage, and dam failure, among others. Human-caused hazards can also be the result of purposeful actions including civil unrest/riots, and terrorism.

Available documentation of historic hazards is a relatively recent phenomenon and is often directly related to the severity of impacts on people and property. Historical data is generally available only for the last 50 to 100 years.

Information on hazards most likely to affect Lincoln County was derived from a number of sources. Hazard information was compiled by examining data from DES, FEMA, and the NWS, reviewing historical newspaper articles, and interviewing local experts. Most importantly, the residents of Lincoln County provided information on what hazards had affected their lives and their communities during the public meetings. Table 3-1 lists the declared disasters that have occurred in Lincoln County. The dates listed in the table refer to when the emergency resolution was passed by the County and not when the declaration was signed by the governor and/or president or when the hazard event occurred.

**TABLE 3-1. EMERGENCY RESOLUTIONS**  
**LINCOLN COUNTY, MONTANA**

(compiled from official volumes of Board of Commissioners proceedings)

<b>DATE</b>	<b>PAGE or RESOL. #</b>	<b>EVENT DESCRIPTION</b>
4-7-30	pg. 28	Flooding
1-7-31	pg. 92	Bridge damage from flooding
1-16-31	pg. 96	Bridge damage from flooding
3-9-32	pg. 190	Increase budget due to severe snows
2-5-34	pg. 358	Bridge damage from flooding
12-17-34	pg. 431	Bridge damage from flooding
4-13-35	pg. 469	Heavy snows
4-8-36	pg. 26	Increase budget due to severe snows
4-10-36	pg. 436	Severe winter weather
2-17-39	pg. 366	Snow removal, road repair
6-3-42	pg. 100	National war declaration
4-7-43	pg. 177	Increase budget due to severe snows
4-10-46	pg. 438	Heavy snows
4-11-50	pg. 196	Heavy snows
<hr/>		
1-16-74	Resol. #8	Flooding
12-29-80	Resol. #77	Flooding
9-7-88	Resol. #169	Wildfire
8-17-94	Resol. #336	Wildfire
11-30-95	Resol. #384	Flooding
12-31-96	Resol. #417	Severe snow/rain
4-25-97	Resol. #426	Flooding
5-24-99	Resol. #489	Flooding
4-15-00	Resol. #514	Civil Disobedience
8-9-00	Resol. #526	Wildfires
8-30-00	Resol. #529	Wildfires

The following hazards were identified, evaluated and prioritized or dismissed as part of Lincoln County's PDM development:

**Natural Hazards – Wildfire**

Floods

Weather

Winter storms

Summer storms

Avalanche

Landslide

Earthquake

Volcanic eruption

Insect infestation

Biological Hazards

Infectious disease

Animal/agricultural disease

**Human Caused**

**Hazards -**

Mass casualty accidents – air, rail, highway, disease

Dam failure

Chemical spill

Terrorism

Civil disturbance

**3.1.1 Wildfire**

Wildfire has historically represented a significant threat of potential property damage within Montana. Although fire is a natural and necessary component of the western Montana forest ecosystem, uncontrolled wildfire has large economic, social and health costs in Lincoln County. Negative impacts of wildfire include loss of life, property and resource damage or destruction, smoke caused health impacts, and environmental degradation. Long periods of warm dry summer weather combined with lightning storms are often causes associated with wildfire.

The wildland/urban interface is zone where structures and other human development meet or intermingle with undeveloped wildland and forest fuels. In northwest Montana, the wildland/urban interface typically is where the edge of local communities are immediately adjacent to forest lands and where suburban development and single-family homes are surrounded by forest (see Figure 3-1). Although Lincoln County has not had large losses of life or homes from recent fire seasons the potential is there. The combination of increased fuel loads in second growth forest and increased residential development in and near forested areas makes wildfire the highest priority hazard issue to Lincoln County residents (see Table 3-2).

Lightning storms can initiate a number of fires over a broad area under the right conditions. Under dry fuel conditions and hot, windy, dry weather fires can spread quickly. The rate of spread of a fire varies with wind speed, fuel conditions and topography. Fire suppression can be very effective under favorable conditions and where access is good. However, under some conditions including dry fuels and high wind, suppression efforts may have little effect.

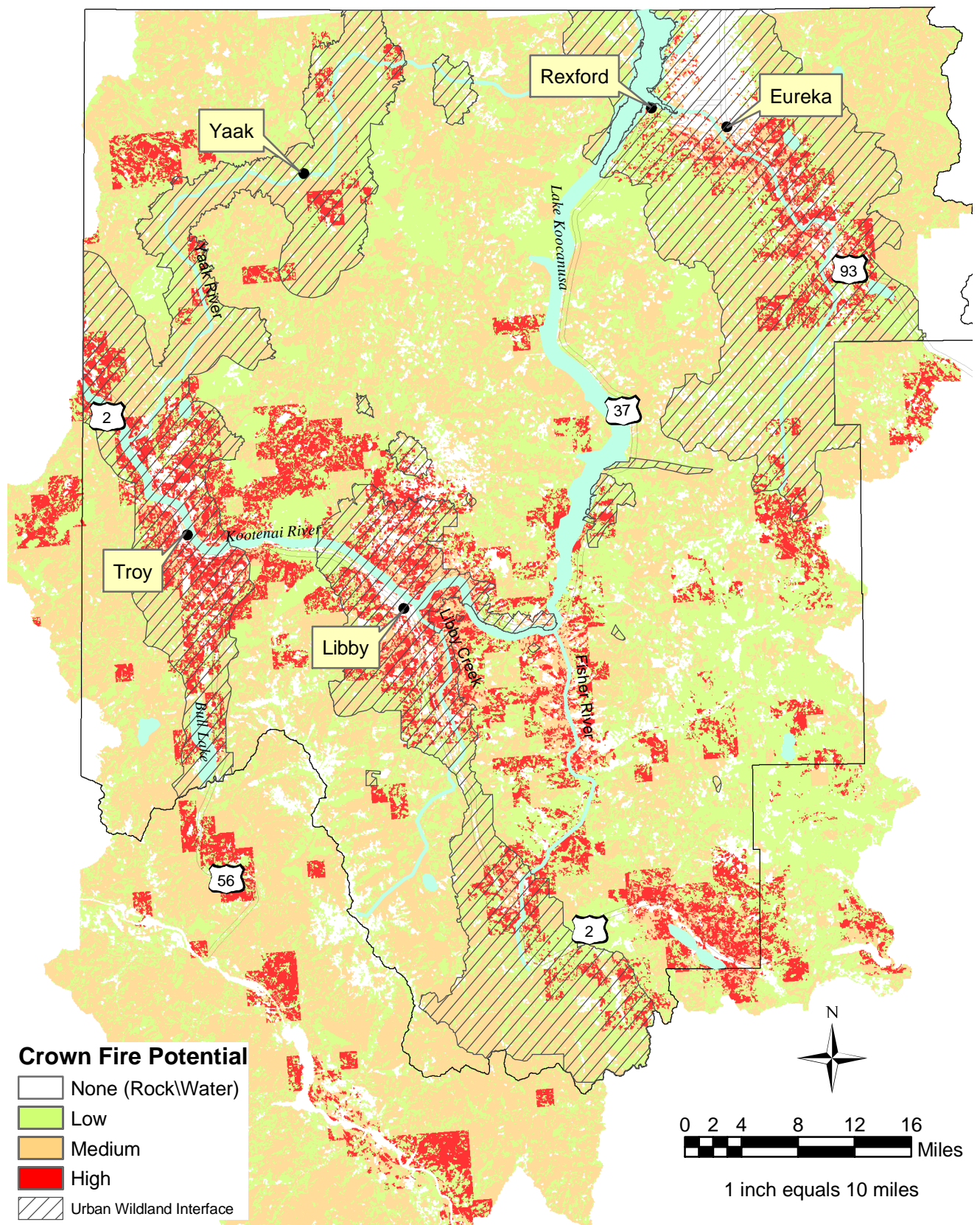
#### **3.1.1.1 Location and Extent of Previous Wildfire Events**

Wildfires in Lincoln County during 1988, 1994 and 2000 were declared State and/or Federal disasters. The summers of 1994 and 2000 were both bad fire seasons in Lincoln County. In 2000 the Kootenai National Forest recorded 270 fires, burning a total of 45,465 acres. In 1994 over 60,000 acres burned on the Kootenai Forest. In 2000 homeowners in the Pinkam Creek area were advised to evacuate their homes when fires were dangerously close to a number of homes.

#### **3.1.2 Floods**

Floods are natural reoccurring event in rivers and streams. Runoff water from snowmelt and rainfall exceeds the channel capacity and overflows onto the banks and adjacent floodplains.





Pre-Disaster Mitigation Plan  
Lincoln County, MT

Urban Wildland Interface (Kootenai National Forest, 2004) and  
Crownfire Potential Map (Northern Region National Fire Plan  
Cohesive Strategy Geospatial Dataset, 2002)

Figure

3-1

**TABLE 3-2. HAZARD RANKING - LINCOLN COUNTY, MONTANA**

Hazard Category	Hazard	Potential Impacts	RISK			Priority Rating
			Likelihood of Occurrence	Severity	Public Concern	
Weather	Winter Storm	Power outage	3	1	1	5
		Road closure	3	2	2	7
		Building damage	2	2	2	6
	Wind - microburst	Power outage	2	1	1	4
		Road closure	2	1	1	4
		Building damage	2	1	1	4
Flood	Snowmelt	Drowning/stranding	2	3	2	7
		Power outage	2	1	1	4
		Road closure	2	1	1	4
		Building damage	2	2	2	6
	Rain	Drowning/stranding	2	3	2	7
		Power outage	2	1	1	4
		Road closure	2	1	1	4
		Building damage	2	1	2	5
	Dam Failure	Drowning/stranding	1	3	1	5
		Power outage	1	3	1	5
		Road closure	1	3	1	5
		Building damage	1	3	1	5
Fire	Wildfire	Road closure	3	2	3	8
		Building damage	2	3	3	8
		Injury or loss of life	2	3	3	8
		Smoke inhalation	3	1	3	7
Earthquake	Earth movement	Power outage	1	1	1	3
		Road closure	1	1	1	3
		Building damage	1	1	1	3
Landslide	Slip/rotational failure	Road blockage	2	1	1	4
	Debris avalanche	Homes or buildings	2	1	1	4
Avalanche	Snow avalanche	Road blockage	1	1	1	3
Man Caused	Terrorism	Bio- human disease	1	3	1	5
		Bio - animal disease	1	2	1	4
		Infrastructure damage	1	2	1	4
	Civil disturbance	Infrastructure damage	1	1	1	3
	HAZMAT spill - Railroad	Human health threat	2	2	1	5
		Environmental threat	2	2	1	5
	HAZMAT spill - highway	Human health threat	2	2	1	5
		Environmental threat	2	2	1	5

Impact - Score high, medium , low (3,2,1) depending on potential for loss of life, personal property and public infrastructure

Likelihood - Score high, medium, low (3,2,1 - likely to occur in next 5, 10 or greater than 20 years)

Severity - Score high, medium, low (3,2,1) depending on how widespread or severe the impact may be+A2

Priority - Sum of Occurrence, Likelihood and Severity.

Floodplains are lowlands, adjacent to rivers and lakes that are subject to recurring floods. Winter or early spring rain on snow events and late spring mountain snowmelt are often the cause of flooding in Lincoln County.

Damage to structures, infrastructure and injuries or deaths may result from flooding. Faster moving floodwater can wash buildings off their foundations and sweep vehicles downstream. Pipelines, bridges, and other infrastructure can be damaged when high water combines with flood debris. Flooding of built up areas can cause extensive damage to homes and other private property.

#### **3.1.2.1 Location and Extent of Previous Flood Events**

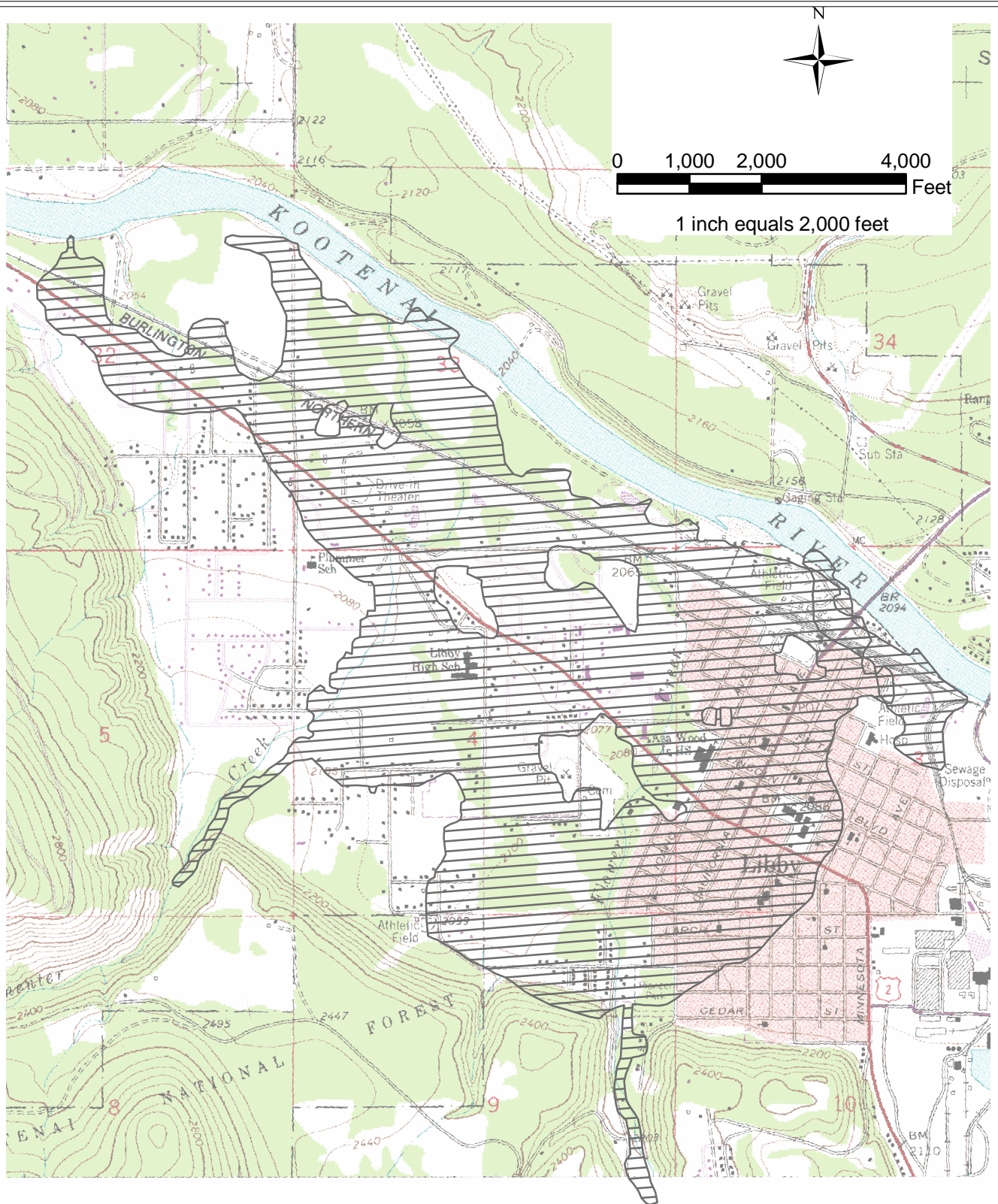
The Kootenai River is the dominant stream draining Lincoln County and the Libby Dam located 17 miles upstream of Libby provides significant flood control on the Kootenai. Several creeks in Lincoln County have been subject to damaging flooding in recent years. These streams include but not limited to Parmeter Creek, Flower Creek, Libby Creek, Granite Creek, Fisher Creek, Calahan Creek, Lake Creek, Pipe Creek, Bobtail Creek, Grave Creek and Yaak River. FEMA flood protection program and flood plain maps have been developed for these streams and are shown on Figure 3-2. Residential development in the flood plains of these streams has resulted in the loss of several homes and related infrastructure such as roads. Local flooding has also occurred to low lying properties along the Yaak River, Granite Creek and the Fisher River.


Lincoln County received two disaster declarations for flooding, one during March 1986, and the other April 27, 1999. A description of historic flooding events in Lincoln County is presented below.

#### **3.1.3 Weather Hazards**

Numerous severe winter storm events have affected northeastern Montana and impacted Lincoln County residents. Winter storms are the most common severe weather event listed by the National Weather Service (NWS) for Lincoln County (see Appendix B). The NWS





 100 Year Flood Plain

Pre-Disaster Mitigation Plan  
Lincoln County, MT

Flood Plain Map  
(U.S. Corps of Engineers, 2001)

Figure  
3-2

lists more than ten severe winter storm or heavy snow events per year over the ten-year period from 1993 to 2002 in Lincoln County (Appendix B). In November 1994 heavy snows caused over \$500,000 of damage mostly from building and roof collapse. Winter storms can present a number of hazards including cold, blowing snow that drifts roads and impairs visibility, snow loading on buildings that can collapse roofs, ice accumulations that can both cause tree and power line breakage and ice that causes difficult driving conditions. Dangerous driving conditions, road closures and utility line damage are probably the most common hazards associated with winter storms; however, exceptionally large snowfall or ice loading that causes structural damage to buildings may be the greatest threat to critical infrastructure, public and private property.

Thunderstorms, hail and high wind are potential hazards to people, property, crops and forests. The NWS lists an average of nearly two severe summer storm or wind events per year in Lincoln County during the period 1993 to 2002 (Appendix B). Hazards associated with summer storms include the direct effects of lightning and hail, dangerous driving conditions, hazards to outdoor recreationists, and wind damage to utility lines, trees and structures. Secondary effects include wildfire ignition and flooding. Crop damage from hail and forest blow down from high winds can have significant economic local impacts.

### **3.1.4 Dam Failure**

Montana Department of Natural Resources and Conservation (DNRC) lists 19 dams in Lincoln County, six of which are classified as high hazard structures and two as significant hazard (Table 3-3). These dams are used for hydropower, flood control, fire protection, irrigation, recreation, stock watering and water supply. Montana DNRC classifies dams based on potential damage resulting from a dam breach, as follows: “high” - significant loss of life and property; “significant” - no loss of life and significant property damage; and “low” - minor property damage.

The high and significant hazard dams in Lincoln County range from a 14 foot tall irrigation dam to the 422 foot high Libby hydroelectric dam on the Kootenai River capable of storing

**TABLE 3-3. DAMS LOCATED IN LINCOLN COUNTY, MONTANA**

Owner name	Dam name	National ID	Longitude	Latitude	Nearest city-town	Dam type*	Purpose code**	Year completed	Dam length	Maximum storage	Normal storage	Hazard Code**	Dam height
ALBERT LEVINSON	DOUBLE N RANCH	MT01459	-115.508	48.255	LIBBY	RE	R	1965	400	650	600	S	16
CHAMPION INTERNATIONAL	LIBBEY'S LABEL	MT03749	-115.537	48.382	LIBBY	RE	O	1945	600	63	63	L	8
CITY OF LIBBY	FLOWER CREEK DAM	MT01458	-115.575	48.345	LIBBY	VA	S	1945	118	285	221	H	59
GERALD NEILS	MCGILLA GORILLA #50	MT03598	-115.215	47.958	LIBBY	RE	P	1970	250	124	63	S	20
GLEN LAKE IRRIGATION DISTRICT	COSTICH DAM	MT01025	-115.02	48.89	EUREKA	RE	I	1956	215	570	470	H	29
GLEN LAKE IRRIGATION DISTRICT	GLEN LAKE	MT03756	-114.948	48.867	EUREKA	RE	I	1950	700	3580	2660	H	14
J.E. DAVIS	SHELLY'S HOPE	MT03714	-115.59	48.92	YAAK	RE	P	1950	350	98	42	L	8
J.E. DAVIS	OKAGA LAKE	MT03713	-115.59	48.935	YAAK	RE	P	1950	100	843	432	L	15
JAMES E. SMITH	BLACK LAKE (LINCOLN)	MT03597	-114.877	48.777	FORTINE	RE	R	1935	150	144	74	L	20
JAMES E. SMITH	VREDENBURG DAM	MT03487	-114.858	48.78	FORTINE	RE	O	1970	100	92	36	L	15
JAMES E. SMITH	CRYSTAL LAKE	MT03596	-114.88	48.783	FORTINE	RE	O	1950	300	151	93	L	30
JAMES K. KESSLER	HIGHAM DAM	MT03709	-115.545	48.295	LIBBY	RE	P	1945	250	52	22	L	8
JAMES K. KESSLER	CARLISLE	MT03712	-115.65	48.942	YAAK	RE	P	1950	250	49	15	L	6
JIMMY JACKSON	OBERMAYER LAKE	MT03710	-115.72	48.815	YAAK	RE	P	1950	300	69	36	L	15
KOOTENAI DEVELOPMENT CO.	KOOTENAI DVLPMNT IMPNDMNT DAM	MT01470	-115.43	48.417	LIBBY	RE	O	1980	1154	2450	2120	H	135
NORTHERN LIGHTS, INC.	LAKE CREEK	MT00221	-115.875	48.438	TROY	PG	H	1917	268	80	79	H	35
THOMAS/RETA BUHL	LAKE RENE	MT03711	-115.697	48.747	YAAK	RE	P	1950	450	330	169	L	20
TOWN OF EUREKA	EUREKA HOLDING POND DIKE	MT03839	-115.075	48.883	EUREKA	RE	O	1982	400	96	96	L	40
U.S. ARMY C.O.E.	LIBBY	MT00652	-115.308	48.412	LIBBY	PG	H	1973	2890	6027000	5809000	H	422

Note: Source Montana DNRC

Note: Lengths and heights in feet; storage = acre feet

\* RE = earth; VA = arch; PG = gravity

\*\* R = recreation; O = other; S = water supply; P = fire protection; I = irrigation; H = hydroelectric

\*\*\* L = Low; S = Significant; H = High

over six million acre feet of water. Catastrophic failure of any of the six high hazard dams would cause downstream flooding that could impact residential structures and/or public roads. Failure of the Libby dam has been modeled by the US Corps of Engineers (US COE, 2000) and has the potential to inundate roads, critical facilities and a large number of residential housing units as far downstream as the Idaho Border. Location of the existing high and significant hazard dams in Lincoln County are shown on Figure 3-3. Emergency Plans related to potential failure of the other high hazard dams in Lincoln County are kept in the County DES office.

### **3.1.5 Insect Infestations**

Agriculture and forestry industries in northwest Montana are susceptible to insect damage that in extreme situations can become a hazard to the local economy and have secondary impacts such as increasing other threats such as fire danger.

### **3.1.6 Earthquakes**

An earthquake is ground motion that results from the sudden movement of rock beneath the earth's crust. Earthquakes may cause landslides, rupture dams, disrupt power and telephone lines, gas, sewer, or water mains, which, in turn, may set off fires and/or hinder firefighting or rescue efforts. Earthquakes also may cause buildings and bridges to collapse.

Earthquakes occur along faults, which are fractures or fracture zones in the earth across which there may be relative motion. A number of northwest to southeast trending faults occur in Lincoln County (Figure 3-4). In northwest Montana, moderate earthquakes are expected to occur on an infrequent basis. The USGS keeps records of historic earthquakes and prepares maps of potential earthquake hazard. The USGS hazard mapping (US Geological Survey Earthquake Data Base, 2002) indicates that nearly all of Lincoln County lies within the zone having a 10 % probability of exceeding a peak ground acceleration of 0 – 6% of gravity in 50 years (Figure 3-5). The USGS and ESRI/FEMA Hazard website maps show no record of historical earthquakes in Lincoln County. A search of the USGS preliminary determination of epicenters (PDE) 1974 to 2002 database (Table 3-4) indicates a

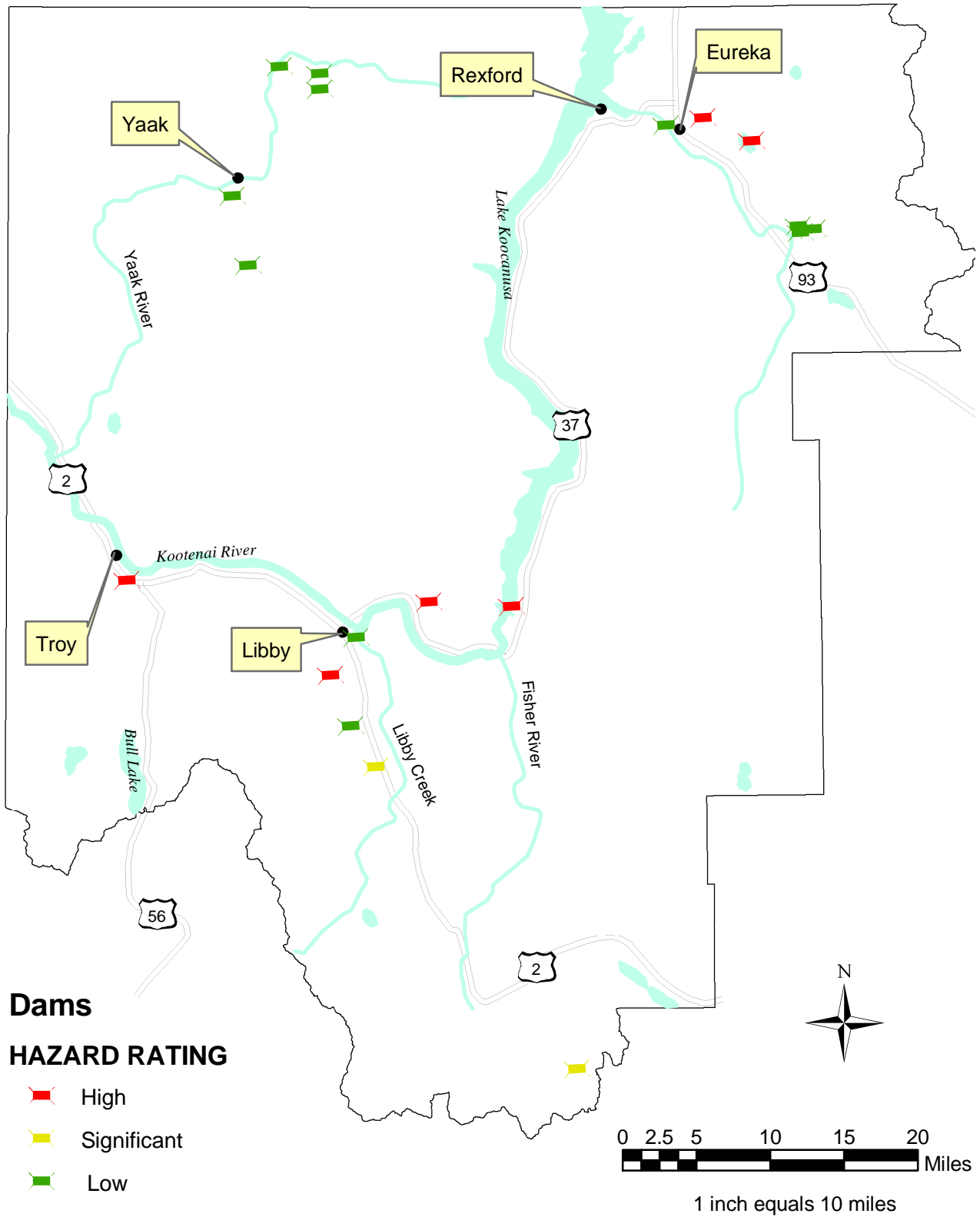




FIGURE 3-4. GEOLOGICAL STRUCTURES – LINCOLN COUNTY, MONTANA



## Historic Earthquake Map

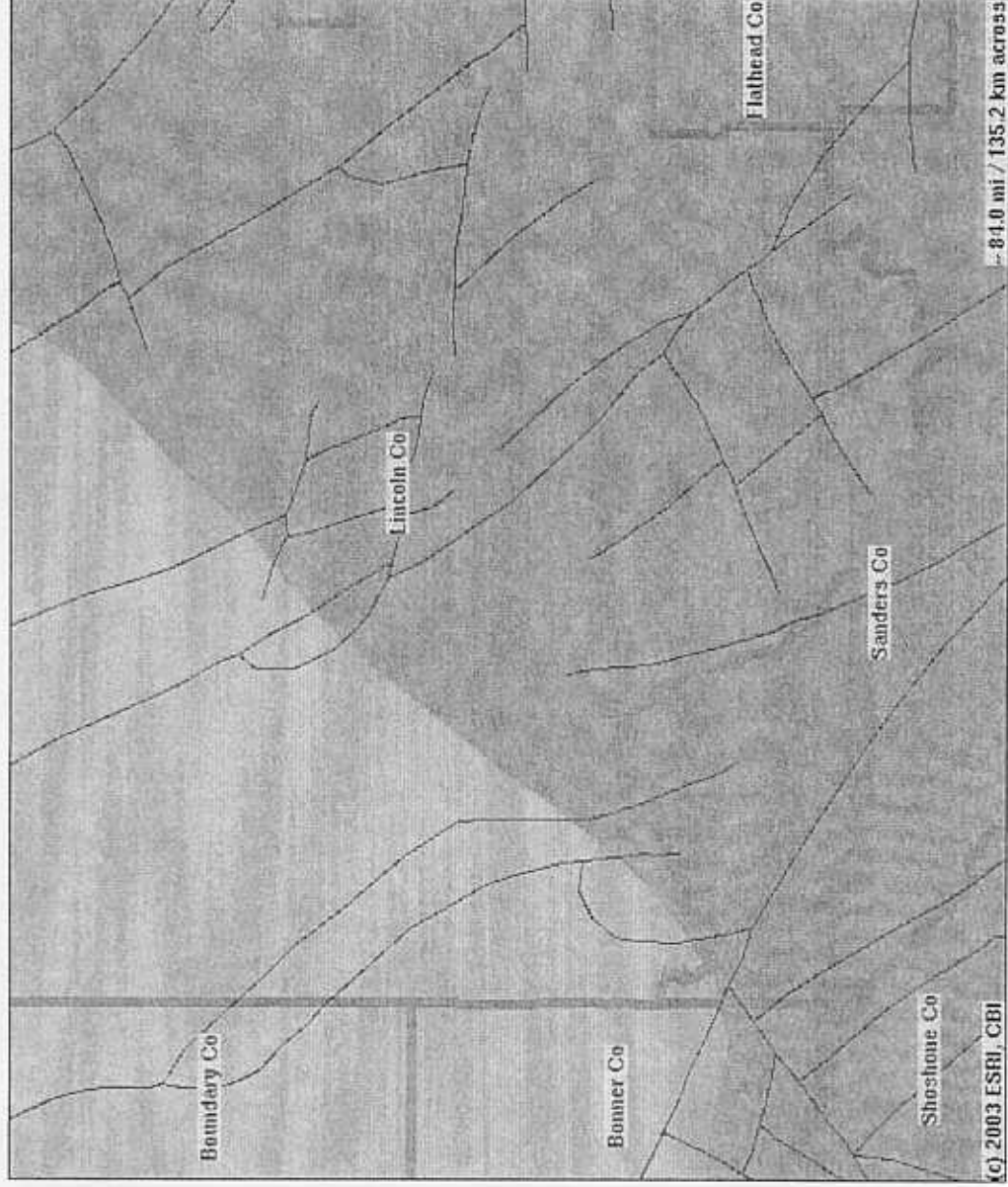
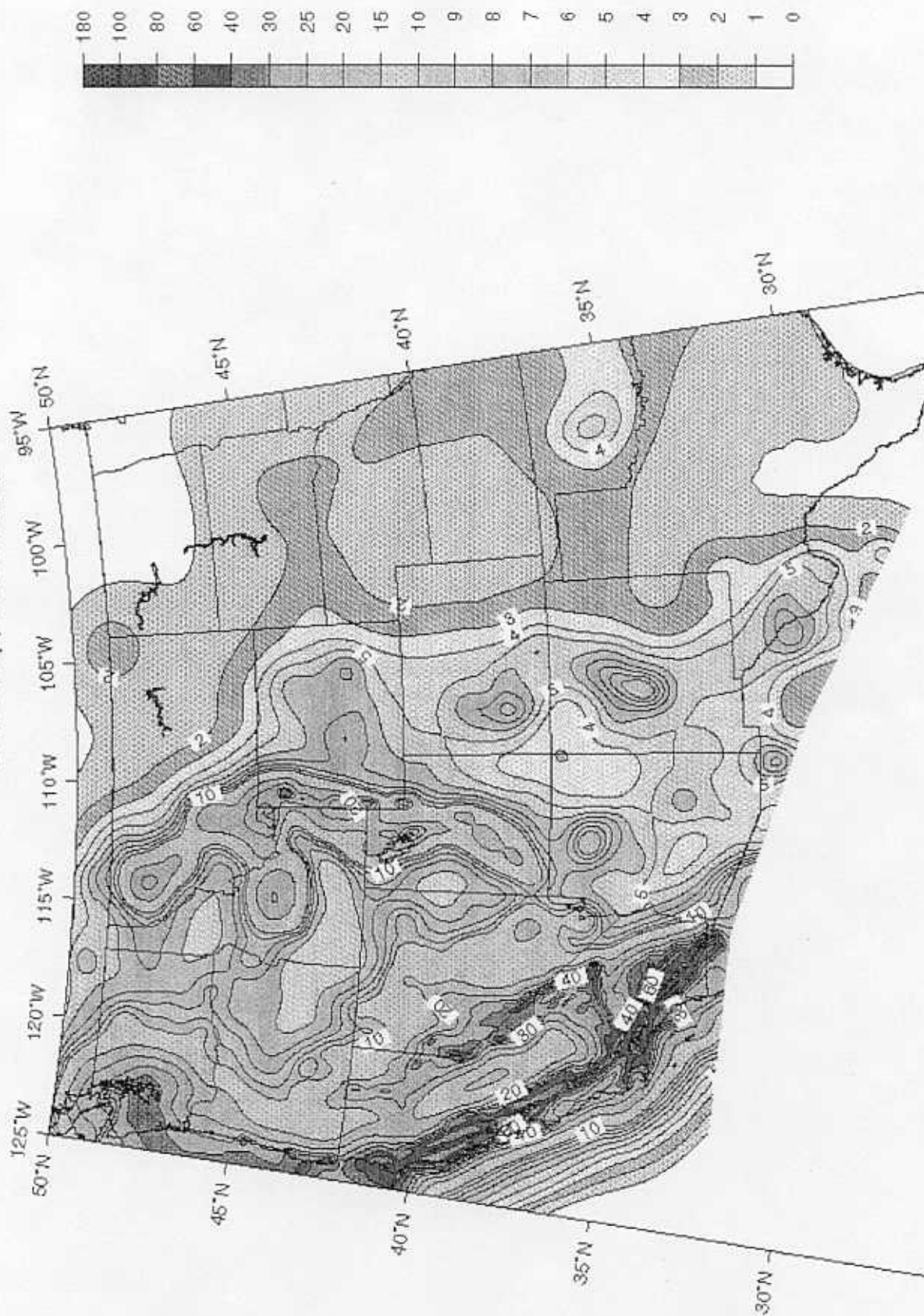


FIGURE 3-5. EARTH QUAKE PROBABILITY

Peak Acceleration (%g) with 10% Probability of Exceedance in 50 Years  
USGS Map, Oct. 2002rev



## TABLE 3-4. HISTORIC EARTHQUAKE DATA

## LINCOLN COUNTY, MONTANA



Earthquake Hazards Program

## NEIC: Earthquake Search Results

U. S. GEOLOGICAL SURVEY

EARTHQUAKE DATA BASE

FILE CREATED: Fri Nov 21 13:18:08 2003

Geographic Grid Search Earthquakes= 51

Latitude: 49.500N - 47.500N

Longitude: 114.200W - 116.000W

Catalog Used: PDE

Data Selection: Historical &amp; Preliminary Data

CAT	YEAR	MO	DA	ORIG TIME	LAT	LONG	DEP	MAGNITUDE	IEFM	DTSVNWG	DIST
									NFPO		km
									TFS		
PDE	1974	07	26	233603	48.72	-114.89	13	3.70 MLGS	....	.....	
PDE	1975	10	20	141754.80	48.20	-114.28	25	4.30 mb GS	....	.....	
PDE	1976	04	18	082714	47.87	-114.21	5		....	.....	
PDE	1979	10	16	183344.60	48.24	-114.54	5	3.10 MLPDE	.F..	.....	
PDE	1982	08	05	014816.53	47.85	-114.35	5	2.50 MLGS	.F..	.....	
PDE	1982	08	08	074807.49	47.93	-114.36	5	2.30 MLMSO	.F..	.....	
PDE	1982	08	08	074923.15	47.93	-114.34	5	2.80 MLGS	.F..	.....	
PDE	1984	01	25	193612	47.50	-116.00	1	2.30 MLGS	.C..	....R..	
PDE	1984	02	11	133827	49.19	-114.41	18	4.50 mb GS	5F..	.....	
PDE	1986	08	11	051443.91	48.17	-114.64	5	3.10 MLBUT	....	.....	
PDE	1987	05	02	105034.23	48.97	-114.87	5	2.90 MLGS	....	.....	
PDE	1988	08	01	113408.33	47.58	-115.61	10	4.10 MLBUT	4F..	.....	
PDE	1989	03	02	220541.70	47.53	-115.80	0	3.20 MDBUT	....	....R..	
PDE	1990	04	08	013410.46	48.57	-114.61	5	3.00 MLBUT	....	.....	
PDE	1991	05	29	115912.49	47.74	-114.75	5	3.00 MLBUT	3F..	.....	
PDE	1991	12	09	224839.91	47.52	-115.95	1	2.40 MLGS	....	....R..	
PDE	1993	12	22	021612.51	47.82	-114.81	5	2.50 MLGS	....	.....	
PDE	1994	11	11	213921.30	48.18	-114.49	8	3.20 MLBUT	.F..	.....	
PDE	1995	01	29	181839.33	48.05	-114.50	5	3.20 MLBUT	.F..	.....	
PDE	1995	05	02	193102.20	48.14	-114.48	9	4.50 MLBUT	5F..	.....	
PDE	1995	05	02	194602.80	48.15	-114.54	9	2.70 MLBUT	.F..	.....	
PDE	1995	05	02	204707.90	48.13	-114.49	9	4.00 MLBUT	.F..	.....	
PDE	1995	05	03	102835.70	48.16	-114.50	9	2.80 MLGS	.F..	.....	
PDE	1995	05	03	130316.80	48.14	-114.51	9	3.70 MLBUT	.F..	.....	
PDE	1995	05	04	052209.70	48.11	-114.58	9	3.00 MLBUT	.F..	.....	
PDE	1995	05	05	100538.80	48.18	-114.49	9	2.50 MDBUT	.F..	.....	
PDE	1995	05	20	210909.60	48.12	-114.52	9	3.40 MLBUT	.F..	.....	
PDE	1995	05	25	202005.30	48.14	-114.46	9	3.40 MLBUT	3F..	.....	
PDE	1995	05	25	210145.90	48.15	-114.46	9	3.00 MLPGC	.F..	.....	
PDE	1995	05	25	235554.40	48.14	-114.48	9	3.80 MLBUT	.F..	.....	
PDE	1995	06	29	181050.80	48.14	-114.47	5	4.10 MLBUT	4F..	.....	
PDE	1995	06	30	091146.80	48.14	-114.49	9	3.80 MLBUT	4F..	.....	
PDE	1996	11	02	152825.10	47.83	-115.65	5	3.40 MLBUT	.F..	.....	

PDE	1997	01 21	040315.70	47.83	-114.29	4	2.60	MLBUT	.F..	.....
PDE	1997	01 21	041241.70	47.84	-114.28	5	2.20	MLBUT	.F..	.....
PDE	1997	02 02	201440.90	47.82	-114.22	5	3.60	MDBUT	.F..	.....
PDE	1997	02 03	025950.40	47.78	-114.22	1	2.90	MDBUT	.F..	.....
PDE	1997	06 28	030237.75	47.50	-115.82	2	3.40	MLBUT	.F..	....R..
PDE	1997	08 29	084253	48.58	-115.88	18	3.10	MLBUT	.F..	.....
PDE	1998	01 20	163306.50	47.95	-115.05	7	4.00	MLBUT	.F..	.....
PDE	1998	12 22	011747.73	47.99	-115.21	12	4.70	MLBUT	.F..	.....
PDE	1999	08 19	151251	48.12	-114.98	13	3.70	MLPGC	....	.....
PDE	1999	10 26	113957.90	47.91	-114.89	12	3.60	MLBUT	.F..	.....
PDE	1999	11 15	235044	47.79	-114.27	5	2.90	MLBUT	.F..	.....
PDE	2000	04 25	092532	47.63	-114.31	2	3.00	MLBUT	....	.....
PDE	2001	07 29	192650	48.32	-114.41	12	2.80	MLBUT	....	.....
PDE	2002	01 28	111322	47.93	-114.27	8	2.90	MLBUT	.F..	.....
PDE	2002	09 11	133946	48.09	-115.14	9	3.20	MLBUT	....	.....
PDE	2002	09 16	222736	48.10	-115.14	8	3.30	MLBUT	.F..	.....
PDE	2002	09 18	194332	47.57	-115.60	5	2.50	MLBUT	....	.....
PDE	2002	11 07	082744	48.30	-114.29	9	3.00	MLPGC	....	.....

USGS National Earthquake Information  
Center  
[USGS Privacy Statement](#) | [Disclaimer](#)



record of 51 earthquakes in the approximate area of Lincoln County ranging in magnitude from 2.5 to 4.7. A much greater number of historic earthquakes are recorded in Flathead County to the east and the level of probable ground acceleration also rises to the east.

The earthquake ground motion peak acceleration values of up to 6% gravity expected to occur at least every 50 years in Lincoln County would be felt by local residents, and could result in objects falling from shelves and walls, but is at the lower end of the earthquake energy range that would be expected to cause significant structural damage to buildings. Although larger earthquake events with damaging results could be expected to occur in Lincoln County at greater intervals, the general earthquake risk in the County is generally low.

### **3.1.7 Human-Caused Hazards**

Human-caused hazards include accidental events and intentional acts that provide threats to human health and property. These are distinct from natural hazards primarily in that they originate from human activity. Accidental incidents include those that arise from human activities such as the manufacture, transportation, storage, and use of hazardous materials. The term “terrorism” refers to intentional, criminal, malicious acts. Terrorism hazards include the intentional use of biological, chemical, nuclear, and radiological weapons; arson, incendiary, explosive, and armed attacks, industrial sabotage and intentional chemical releases.

Whether intentional or accidental, human-caused disasters involve the application of one or more modes of harmful force to the built environment. These modes are defined as contamination (chemical, biological, radiological, or nuclear hazards), energy (explosives, arson, and electromagnetic waves), or failure or denial of service (sabotage, infrastructure breakdown, and transportation service disruption). Potentially significant human-caused hazard risks to northwest Montana communities include dam failure and chemical release (particularly fuels in transit or at bulk storage facilities).

The proximity of the Canadian Border and the security of the Border crossing is also a potential concern with respect to both unintentional and intentional human caused hazards. Health threats from disease brought across the Border (either unintentionally or intentionally) could be a threat to Lincoln County residents and those outside the County. The level of security at the remote rural Border crossing does not provide for any but the most superficial health screening and there are no facilities to safely detain or isolate any suspected health threats. The length of uncontrolled Border and limited Border security at the designated Roosville crossing are a potential concern related to unwanted infiltration or potential terrorist threat. Although the low population density and lack of major military or industrial facilities makes Lincoln County a low risk for terrorist activities, the level of Border security is a concern to local residents (Table 3-2).

Large-scale accidents involving mass casualty are a concern associated with a variety of human activities including transportation, large gatherings and population centers. Transportation accidents involving aircraft, railroad and highway systems have the potential for involving a large number of people. The risk of such accidents is a function of the volume of traffic; the condition of the transportation system and natural and man caused influences. Many of the causes of potential mass casualty events are described elsewhere in this Plan and the Lincoln County Emergency Operations Plan (Lincoln County, 2004); possible causes or contributing causes to a mass casualty event include such things as weather, fire, flood, dam failure, health emergency, hazardous material spill or even terrorism. However, some potential causes of a mass casualty incident may be essentially technological in nature, such as a mechanical failure that results in an aircraft or train crash. Although the likelihood of a mass casualty accident or incident in Lincoln County is low, this situation is addressed in this Plan and the Lincoln County Emergency Operations Plan (Lincoln County, 2004).

### **3.2 HAZARD PRIORITIZATION**

Between 1974 and the present, 11 federal and/or state disasters have been declared in Lincoln County (Table 3-1). Declared disasters have included wildfire, flood, severe weather and civil disobedience.

Generally, Lincoln County residents and the LEPC identified wildfire, winter storms, and flooding as the highest priority and most likely hazards. Hazards discussed and evaluated during the interviews and public meetings are presented in Table 3-2. This table, which is setup as a matrix to list and prioritize hazards based on frequency and severity was developed and used in all five of the public meetings held in Lincoln County. Hazard prioritization was accomplished by determining which hazards had caused prior fatalities; resulted in property damage; had the potential to cause the most economic hardship within the County; and had the potential to affect Lincoln County residents in the future. Based on review of the historical record and local knowledge, Lincoln County residents identified three major hazards that consistently affect this geographic area: flooding, wildfires and severe winter storms. The threat of hazardous material or mass casualty incidents is a potential human caused hazard present in Lincoln County due to transportation corridors (e.g. highway, railroad) through the area. Security of infrastructure and human and animal health from terrorism was also identified as hazards of concern.

### **3.3 VULNERABILITY ASSESSMENT**

Assessing vulnerability requires understanding the location and importance of those things that the community values. For purposes of this risk assessment, key critical infrastructure, primarily buildings that house critical community services, were identified as valued community resources. Other critical infrastructures identified by the community included certain bridges and communications facilities that are key to emergency response. To assess the vulnerability of these community assets, their locations were mapped on the County GIS system and compared to risk factors associated with wildfire, flooding and landslide risk. Some of the identified hazard risks such as winter storms and earthquake had similar risk factors throughout most of the inhabited area of the county.



### **3.3.1 Property Values**

The US Census Bureau's 2000 database for census blocks within Lincoln County indicates an average residential unit value of \$62,700. Estimating valuation for all commercial and public buildings and infrastructure is not easy because public records are not organized to readily provide this data. There were 581 private non-farm businesses in Lincoln County in 1999 (US Census Bureau, 2003). These businesses range from one-person in-home establishments to large stores and industrial facilities. County tax records indicate 2004 valuations of approximately \$41 million for electric utilities, \$49 million for railroad, and \$13 million for telephone and cable systems. To estimate valuation for this Plan, a value of \$200,000 per commercial establishment or \$2 million per commercial block, was used. Similarly there is a wide range in value of publicly owned buildings and infrastructure from small metal buildings housing a rural fire district or ambulance with a replacement value of \$100,000 or less to the Libby Dam with a replacement cost of hundreds of millions of dollars.

### **3.3.2 Critical Facilities and Infrastructure**

Critical facilities are of particular concern because they provide, or are used to provide, essential products and services that are necessary to preserve the welfare and quality of life and fulfill important public safety, emergency response, and/or disaster recovery functions.

Critical facilities are defined as facilities critical to government response and recovery activities (i.e., life safety and property and environmental protection). Critical facilities include: emergency services such as police and fire stations, emergency dispatch/911 emergency call centers; medical facilities (hospitals and ambulance); transportation infrastructure (roads, bridges, railroads, airports); and utilities. Table 3-5 lists critical facilities in Lincoln County.

Critical facilities data were obtained and mapped and then reviewed and corrected during public review process. Future GIS mapping is intended to periodically update and increase the accuracy of facility locations. Maps showing the location of emergency response facilities (law enforcement – Figure 3-6 and fire stations – Figure 3-7), emergency medical



**TABLE 3-5. CRITICAL FACILITIES – LINCOLN COUNTY, MONTANA**  
**EMERGENCY SERVICES**

**FIRE**

Bull Lake Rural Fire District  
Eureka Fire Service Area  
Fisher River Valley Fire/Rescue Battalions 1 & 2 Libby Rural Fire District  
McCormick Rural Fire District  
Trego, Fortine, Stryker Fire Service Area  
Troy Rural Fire District  
Upper Yaak Fire District  
Cabinet View Fire Service Area

**LAW ENFORCEMENT**

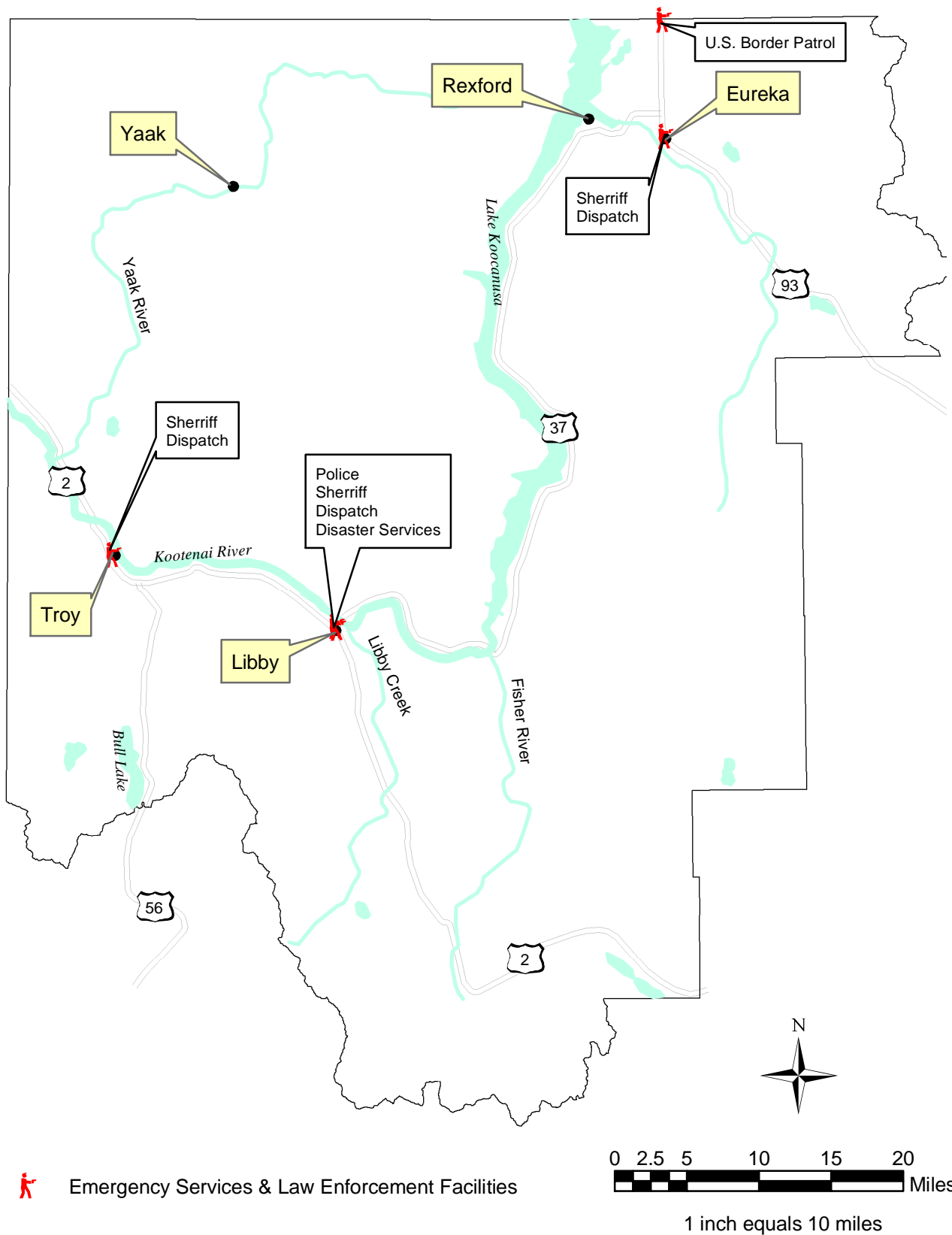
Eureka Area Dispatch  
Eureka City Police Dept.  
Libby City Police Dept.  
Lincoln County Sheriff's Dispatch - Libby  
Troy Area Dispatch  
Troy City Police Dept.  
US Border Patrol – Eureka

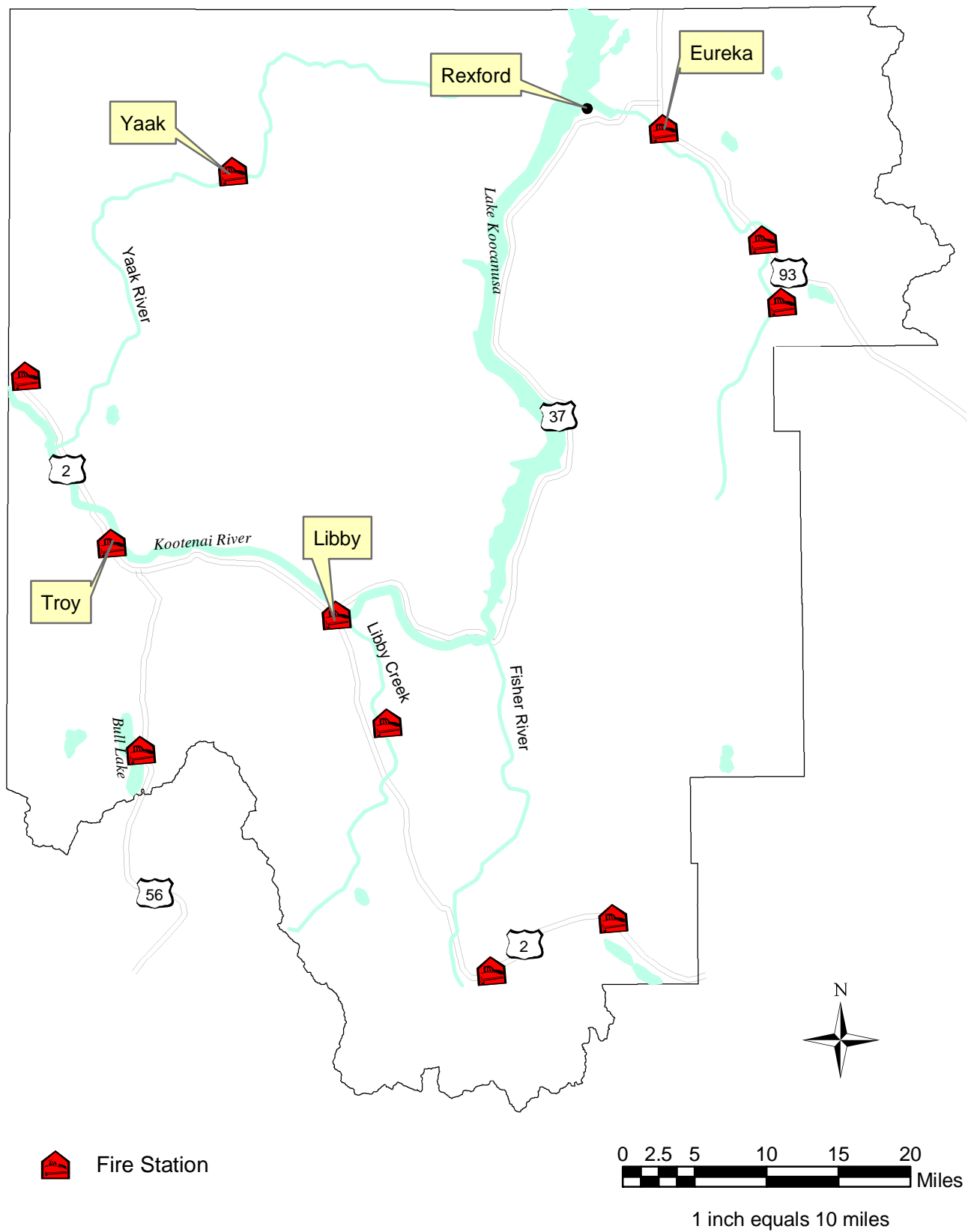
**PUBLIC HEALTH**

Lincoln Co. Health Dept.  
Eureka Volunteer Ambulance  
Troy Volunteer Ambulance  
Libby Volunteer Ambulance  
St. Johns Hospital – Libby

**SEARCH & RESCUE**

David Thompson Search and Rescue  
CanAm Search and Rescue





facilities (hospitals and ambulance Figure 3-8), critical transportation infrastructure (airfields and heliports - Figure 3-9; major roads – Figure 3-10, key bridges - Figure 3-11 and rail lines – Figure 3-12), high hazard dams (Figure 3-3) and energy infrastructure (power generation facilities – Figure 3-13) and are included as an important component of this Plan. Lincoln County intends to expand its mapping of important facilities to include other public services, particularly those serving vulnerable populations, such as schools, day care facilities and nursing homes in the future.

### **3.3.3 Future Growth and Land Use Trends**

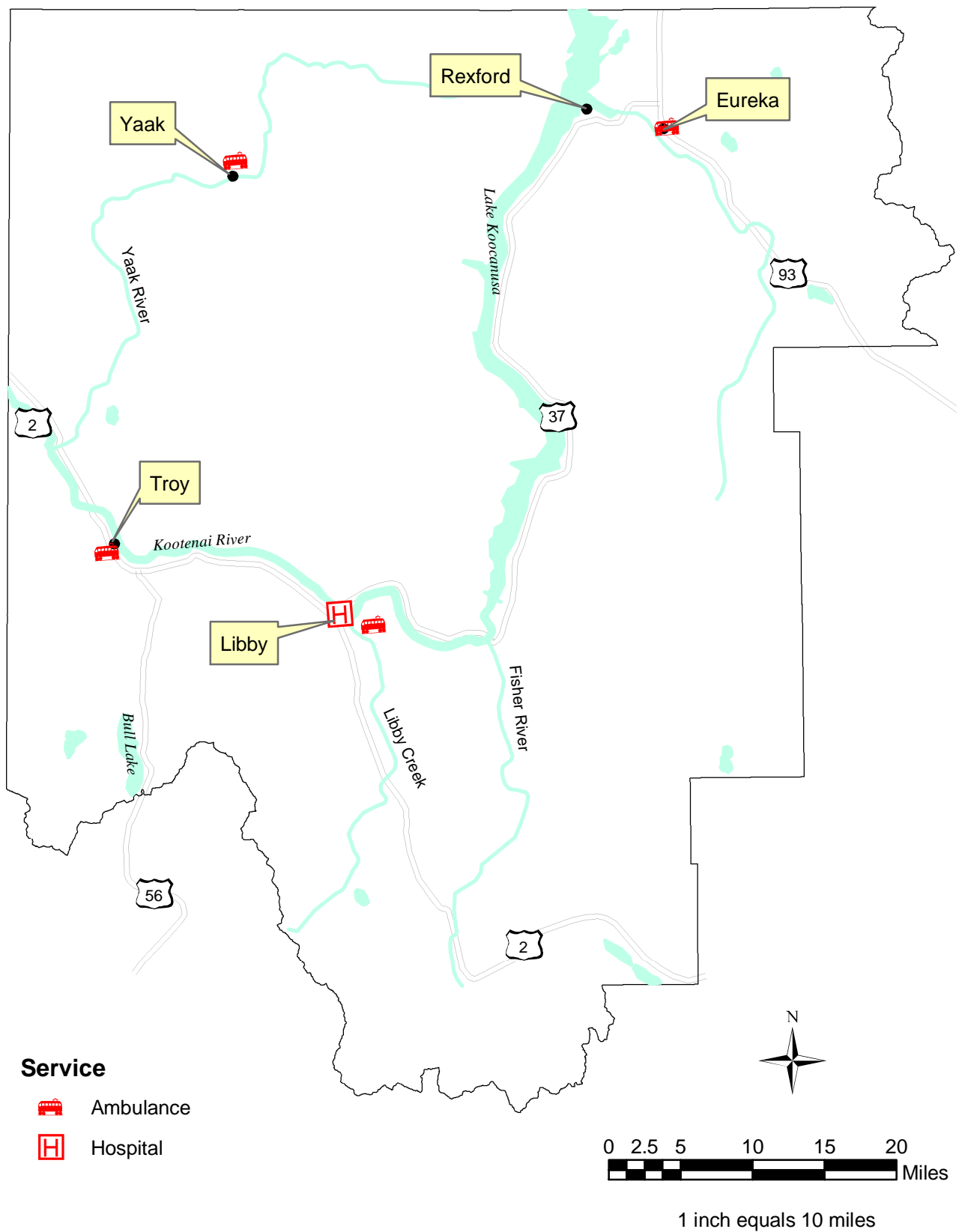
Lincoln County has been gaining population since the 1990 census. The U.S. Census indicates that between 1990 and 2000, Lincoln County gained 11% in population. The Lincoln County Planner suggests that this trend will continue into the future. Much of Lincoln County's growth is occurring outside of incorporated communities. In addition to requiring expansion of services for this rural growth, this trend will place new development in areas where natural hazards, particularly fire, are an issue.

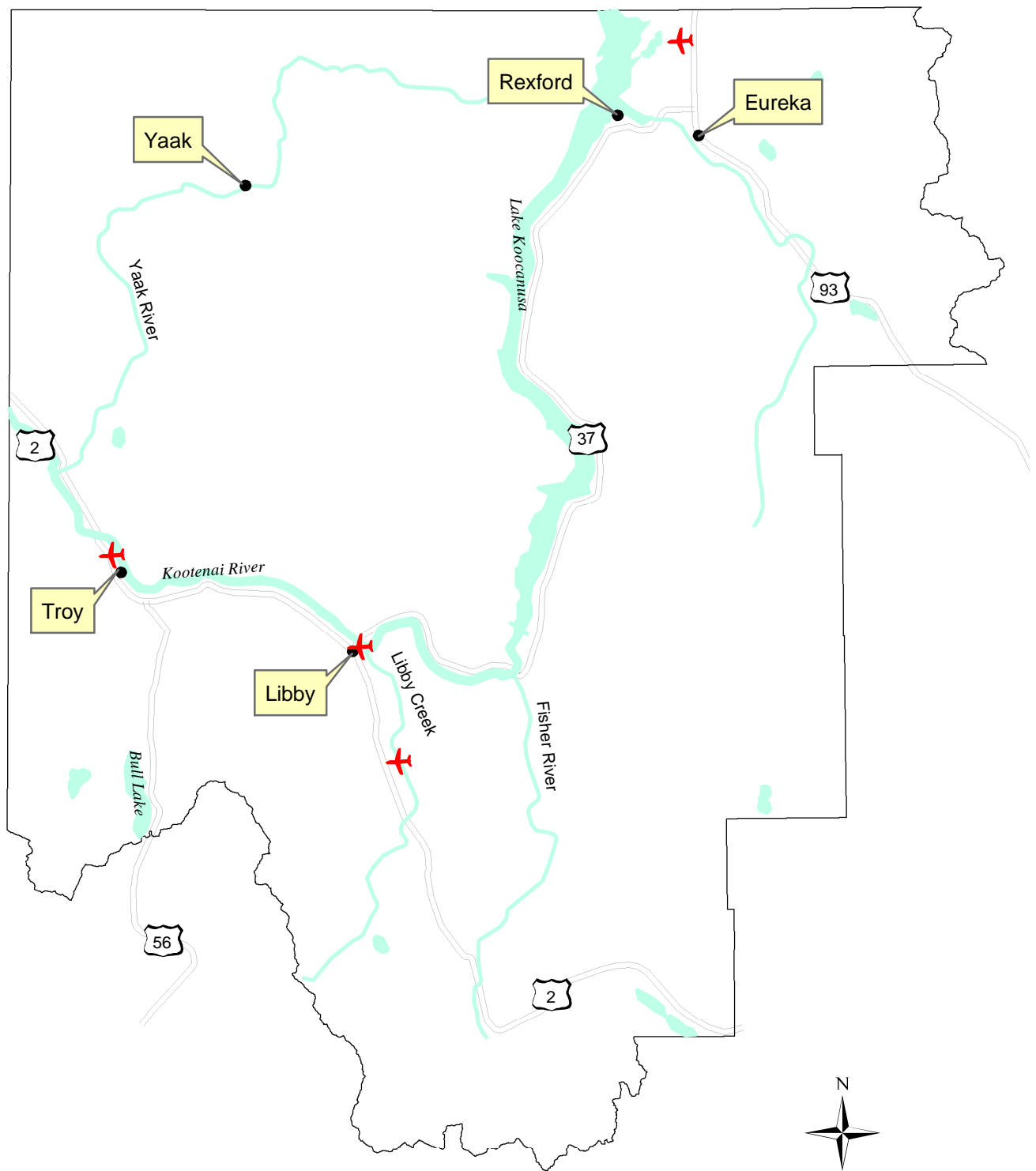
Forest products and service jobs are the basis of the Lincoln County economy and this is not expected to change in the near future.


Although at this time Lincoln County does not have regional zoning, location of proposed buildings, infrastructure or critical facilities located in identified hazard areas can be evaluated relative to hazard risk in future facility location decisions. Development of GIS based mapping of critical facilities as part of this PDM Plan development provides a tool for county residents and service providers to evaluate risks of various hazards.

### **3.3.4 Vulnerable Populations**

In addition to property damage, the major focus of the pre-Disaster Mitigation Planning process is on the impact of any hazard on people. The severity of the impact is related to the intensity of the hazard, the population affected, and the population's ability to protect itself. In addition to the geographic location of potential hazards, the evaluation of hazard risks also

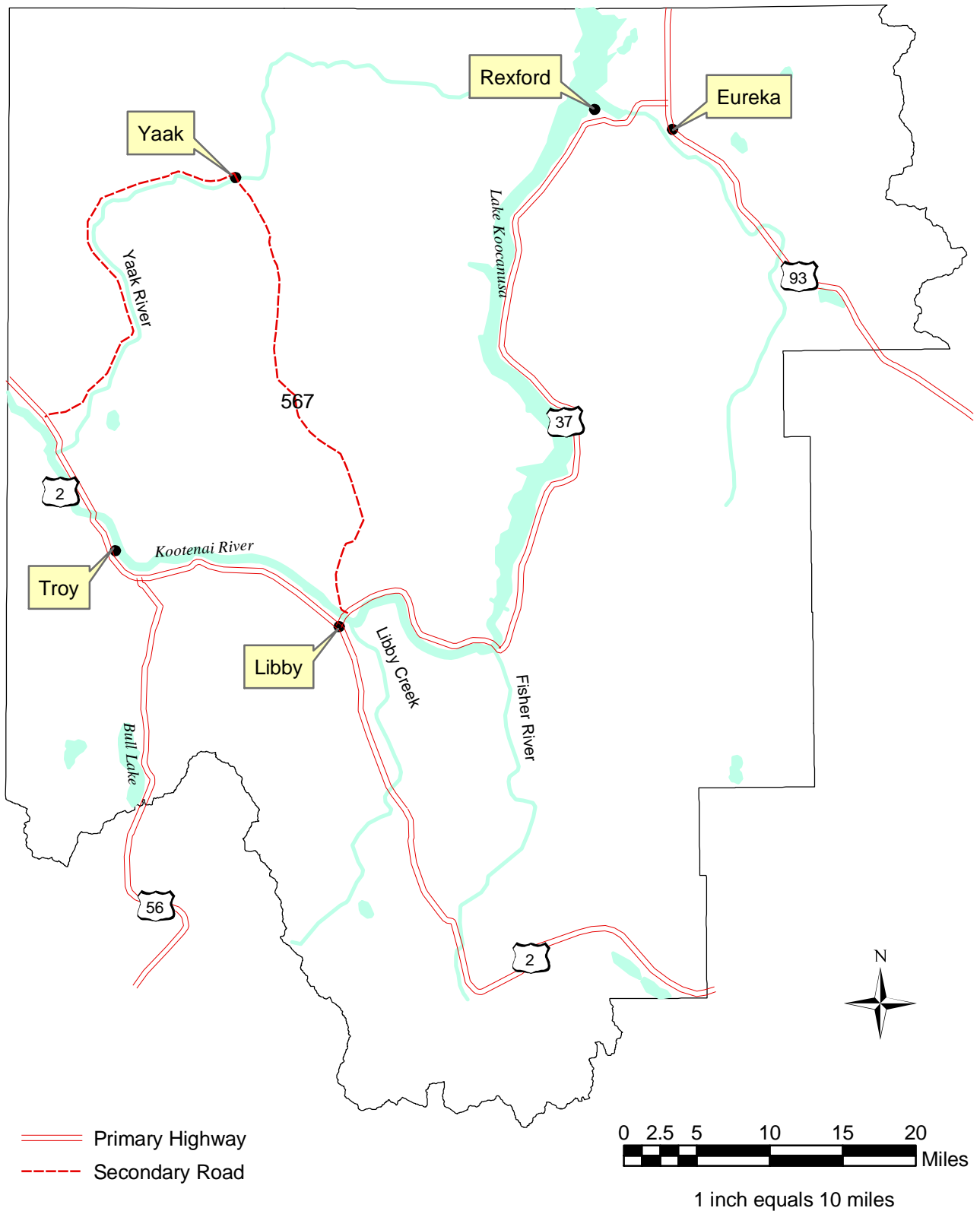


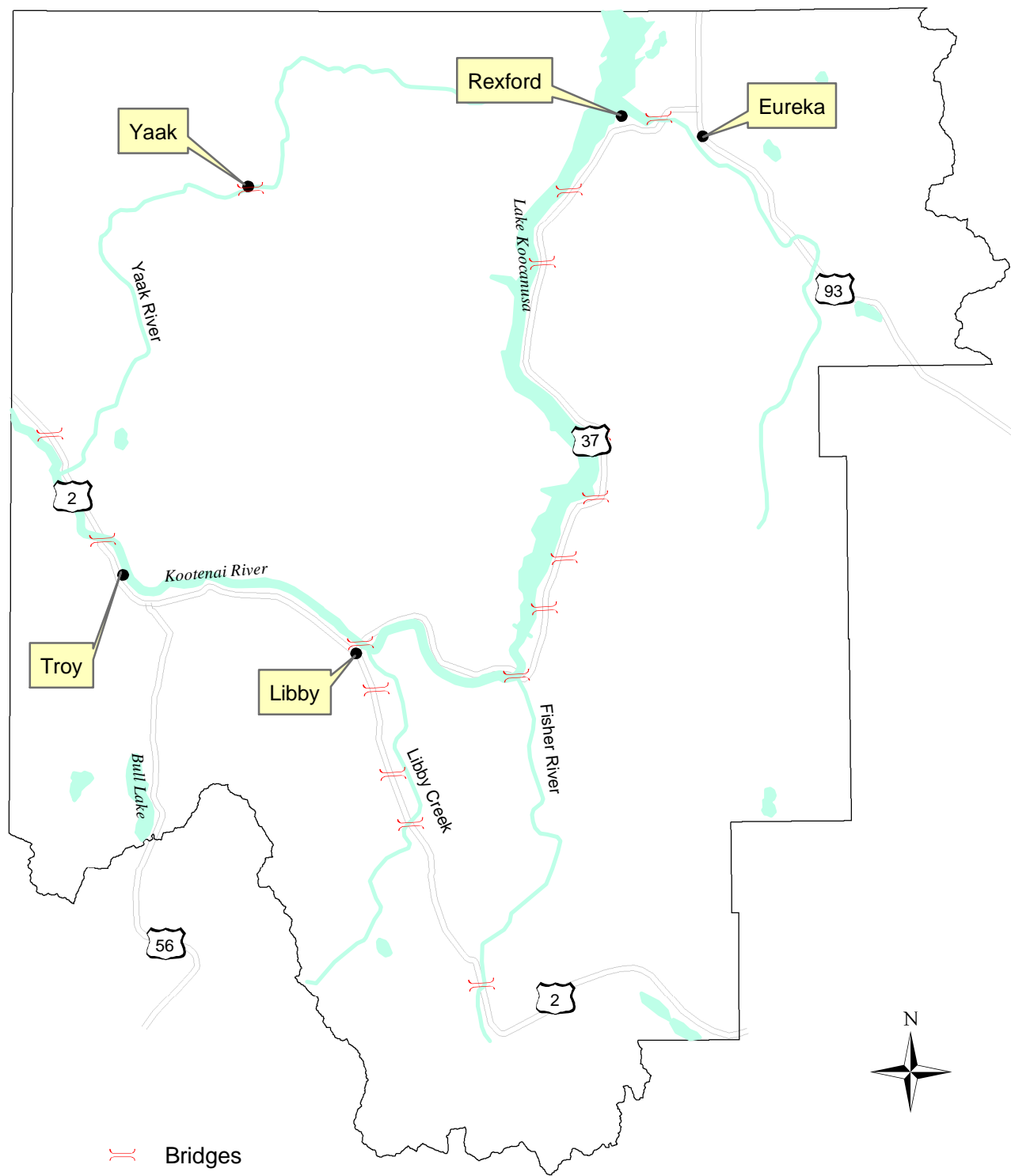


 Airfields and Heliports

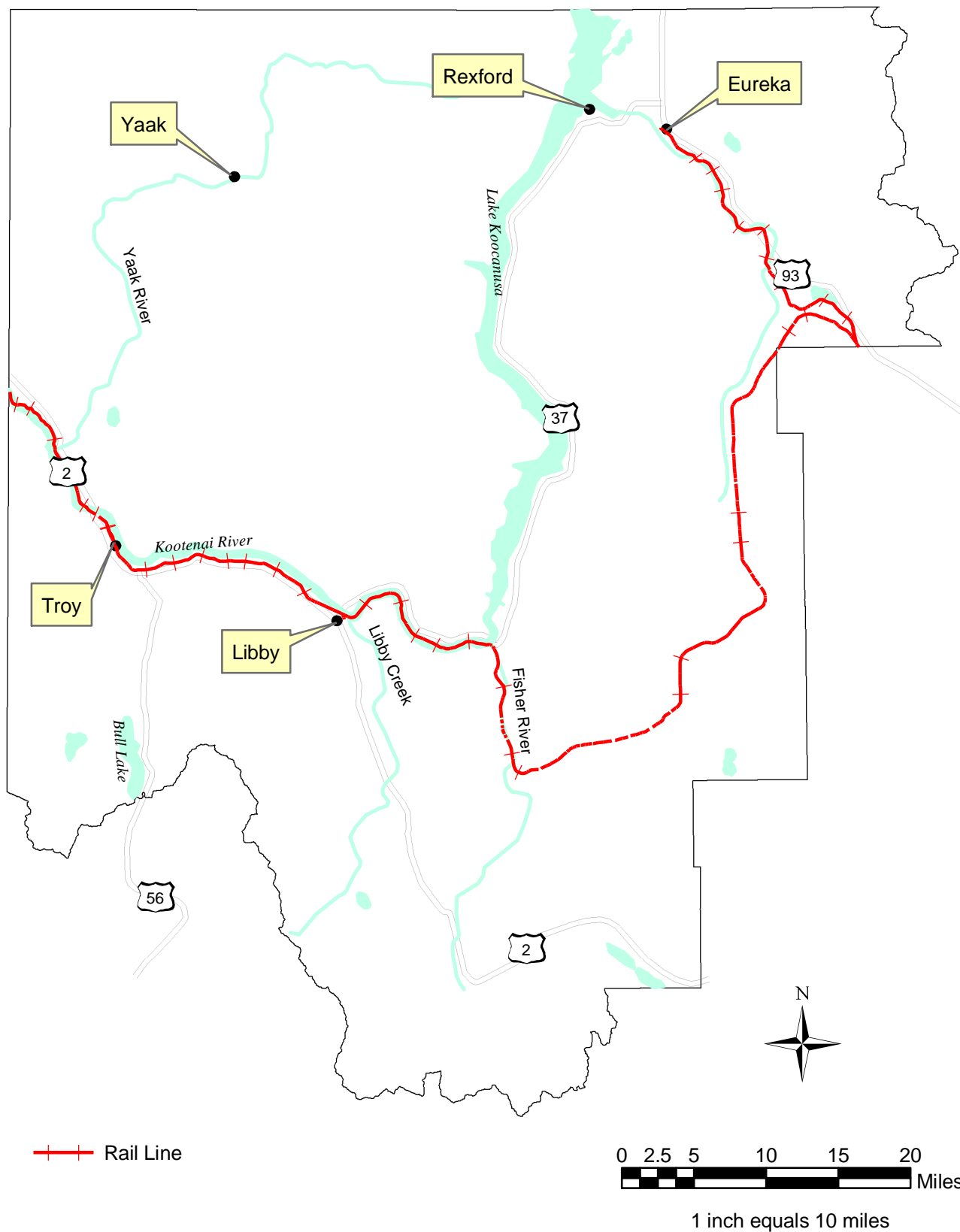
0 2.5 5 10 15 20  
Miles

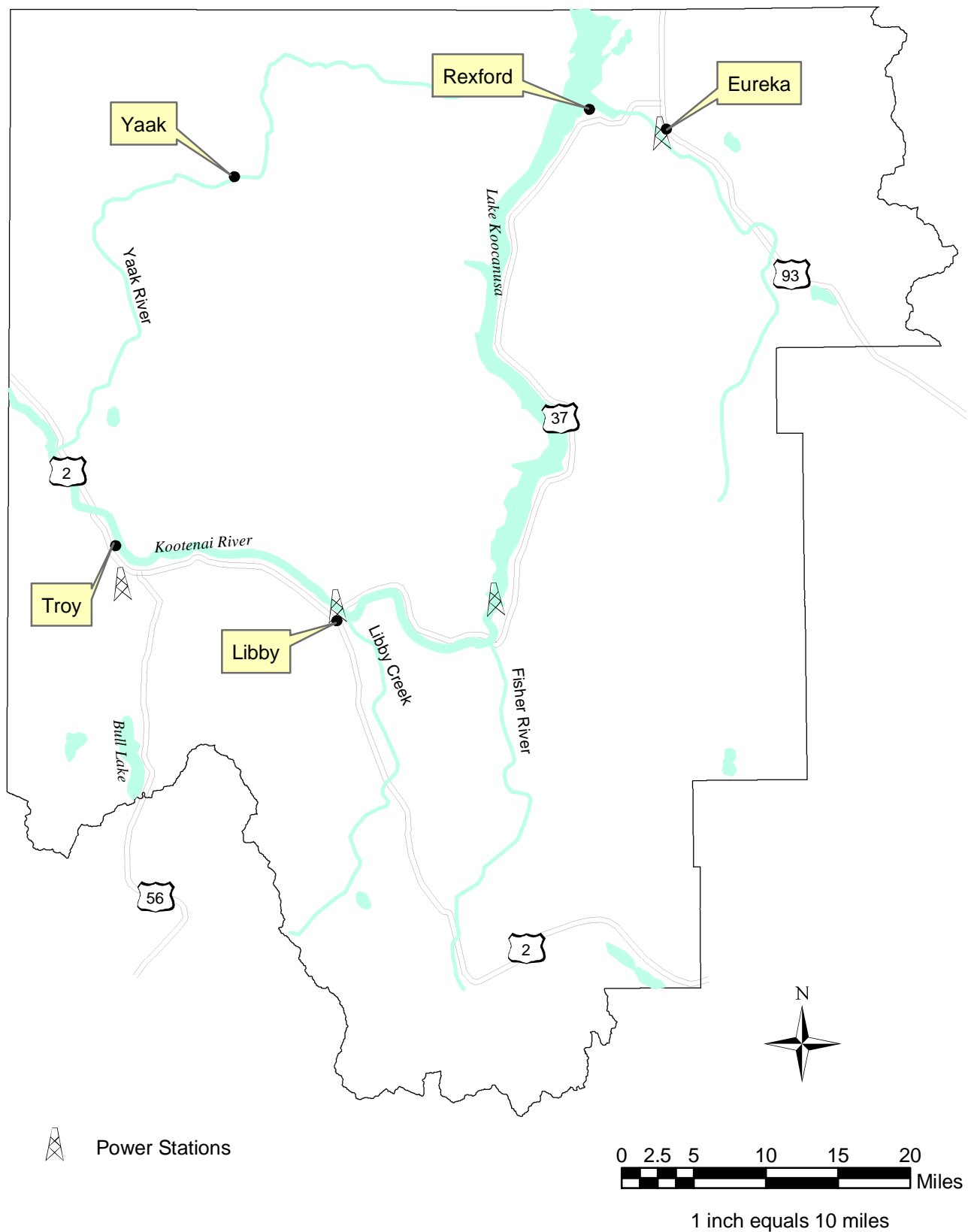
1 inch equals 10 miles











highlighted sensitive populations that may be more vulnerable to hazards. Locations of facilities housing or serving vulnerable populations are in the process of being mapped in Lincoln County. Vulnerable populations include the young, the old and the infirm. Schools, day cares, nursing homes, clinics and hospitals are facilities serving vulnerable populations and are given special weighting in evaluating risk in the PDM planning process. Libby High School, Asa Wood Elementary School, as well as the City of Libby police other City offices, are facilities located in the 100-year flood plain mapped in Libby. Greater than 90 % of the County population are located in the wildland/urban interface zone mapped by the U.S. Forest Service (Figure 3-1). Essentially the all of the population of Libby, Troy and Rexford and much of Eureka are located within half a mile of the crown fire danger zone (Figure 3-1). These factors are used in weighting risks and in prioritizing mitigation efforts.

### **3.4 HAZARD EVALUATION**

The frequency, location, intensity and likelihood of reoccurrence of hazards were evaluated were a major factor in prioritizing hazards that the community identified as being of most concern during public meetings.

#### **3.4.1 Hazard Reoccurrence**

The frequency of past hazard events and, when available, tools for predicting occurrence of future events were used as a guide to evaluate the probability of future hazards occurring. Accurate records have not been kept for some of the identified hazards. Where records are available, they are may be biased towards hazards that occurred in the more populated areas. This is a potential concern as current growth in areas like Lincoln County is expanding into rural areas outside city boundaries.

Data from the NOAA National Climate Data Center Storm Events database, local records, USGS earthquake modeling and input from the local public were used to evaluate the likelihood of reoccurrence of natural hazards. Reoccurrence intervals range from an average of several times per year for severe winter storm events to a 10% probability of a low level earthquake event with a 50 year reoccurrence interval. Flood reoccurrence is mapped for only one area of the County, in the relatively highly populated area of Libby (Figure 3-2).

Floods in other areas and wildfires that threaten human activity and residences, although not known on a statistical basis, seem to reoccur several times per decade based on historical records and the memory of local citizens.

### **3.4.2 Hazard Geographic Distribution**

The geographic distribution of hazards has been mapped and utilized to evaluate potential impacts on critical facilities and the general population.

#### **3.4.2.1 Wildfire**

Forest fires in the vicinity of developed residential areas represent a significant risk for Lincoln County. Lincoln County's communities are generally surrounded by forestlands and residential expansion is common in heavily timbered areas. Wildfire threat is a function of fuel load, fuel conditions and ignition sources. Historic occurrence and fuel characteristics indicate that much of the county is at high risk for future wild fire. Areas with steep slopes and locations where road access may be limited are particularly vulnerable to fast spreading fire conditions and contribute to risk for loss of life or property. According to the Urban Wildland Interface Code, 2000, published by the International Fire Code Institute (IFCI) a "Heavy Fuel" is vegetation consisting of herbaceous plants and round wood greater than 3 inches in diameter – the forested areas of Lincoln County would fall in this category. Figure 3-1 depicts fire risk areas based on proximity of forest and developed areas and fuel condition mapped by the U.S. Forest Service for Lincoln County. All of the communities in the county are in close proximity to forested areas and are concerned about forest fire potential. Areas of the Tobacco Valley near Eureka are more strongly influenced by risk of grass/range fire.

#### **3.4.2.2 Flooding**

Historically flooding has been documented using floodplain maps. Floodplain maps have been developed by FEMA to show flood-prone areas in the community of Libby. The floodplain areas in Libby are shown on Figure 3-2; FEMA is currently revising the floodplain maps for Lincoln County, but these revisions were not available at the time of the PDM planning. Flooding can also occur along other streams throughout the county where

FEMA mapping has not been completed. Population density is generally much lower along streams outside of the community of Libby, but continued development and lack of mapping or floodplain regulations may result in increasing risk of flood damage in other areas of the County.

#### **3.4.2.3 Winter Storms**

The entire project area is subject to winter storm conditions. Although severity of winter storms, particularly snowfall varies significantly with elevation and topography the populated valley bottoms can be characterized as having a similar risk throughout the County. Therefore the hazard profile area for winter storms is the entire project area.

#### **3.4.2.4 Summer Storms**

Historical data indicates that thunderstorms, hail and microburst wind event can cause damage to structures, forest and crop land and endanger people out of doors throughout Lincoln County. Based on review of weather data and the determinations made for tornadoes, windstorms and thunderstorms, the entire project area has been classified with a uniform risk for severe thunderstorms including high winds and hail.

#### **3.4.2.5 Human-Caused Hazards**

Based on review of historical accounts of human-caused and technological hazards, the DES Hazardous Material Response database, and input from the public meetings, it was determined that a significant component of risk in this category was related to transportation of hazardous materials and transportation infrastructure. Location of major transportation arteries, which included highways and railroad lines are shown on Figures 3-10, 3-11 and 3-12.

## **3.5 VULNERABILITY ASSESSMENT: ESTIMATING POTENTIAL LOSSES**

### **3.5.1 Hazard Frequency**

The frequency or likelihood of a hazard occurrence affects the assessment of vulnerability from that hazard. For this risk assessment, hazard frequency estimates were developed based on historical disaster records, potential for occurrence estimates and input from those involved in development and review of the Plan. Hazard frequencies are categorized based on the likelihood of an occurrence within a 5, 10 or 20 year period.

### **3.5.2 Extent of Exposure**

The number of structures or people potentially affected by an occurrence of a disaster event is expressed as the Potential Extent of Exposure. The Potential Extent of Exposure is based on an estimate of structures impacted by a given hazard. For this risk assessment, Extent of Exposure estimates are expressed as a range. Hazard Potential Extent of Exposure magnitudes are expressed as a rating of Very High, High, Moderate or Low as a function of the numbers of structures or people impacted. Very High exposure would impact greater than 100 residential or commercial structures or greater than five critical facilities (Table 3-5); High would impact 50 to 100 residential or commercial structures or two to five critical facilities; Medium would impact 10 to 50 residential or commercial structures or one critical facility; Low would impact less than 10 residential or commercial structures and no critical facilities.

Some hazards, such as winter storm events and smoke inhalation, have the potential to affect essentially all of the structures and population of Lincoln County. Other hazards, such as wildfire or flooding are likely to put a small subset of the structures and population at risk. The Extent of Exposure values used in this vulnerability assessment are intended to reflect the likely maximum level of impact.

### **3.5.3 Severity of Impacts**

Severity of impacts is a weighting factor intended to account for differences in type, extent and cost of property damages inflicted by various hazard events. For example weather related damage could be downed power lines, trees across roads or collapsed roofs; flooding

damage could be bridge and culvert destruction or water damage to structures; and fire damage could range from smoke damage to complete destruction of structures. Severity ratings are set at arbitrary values of 25%, 50%, 75% and 100% damage to property or structures based on the likely maximum level of impact for a given hazard.

### **3.5.4 Human Health and Life Impacts**

Human health and threats to human life are separated from affects of hazard events on property because they are qualitatively different. Human health impacts or loss of life are quantified in this evaluation as High, Medium or Low as a qualitative estimate of the likelihood of human health or loss of life from individual hazard events. Historic records, potential for life or health threatening situations and input from local health officials were considered in this rating.

### **3.5.5 Risk Calculations**

Risk calculations present a quantitative assessment of the vulnerability of structures, people, and critical facilities to individual hazards and cumulatively to all hazards. The equation used to develop the overall relative risk values in this Plan is:

Risk or Overall Vulnerability = Frequency X Exposure X Hazard Severity (or where appropriate Human Health/Life Impacts)

Where:

- Frequency = Score (4, 3, 2, 1) based on probability of event occurring within the next 1, 5 10 or greater than 10 years;
- Exposure = Score (4, 3, 2, 1) based on numbers of structures or critical facilities at risk as described in Section 3.5.2;
- Severity = Score (4, 3, 2, 1) percent of damage expected as described in Plan Section 3.5.3 and presented in Table 3-6;
- Human Health/Life Impacts = Score (3, 2, 1) as described in Section 3.5.4.

**TABLE 3-6. VULNERABILITY ASSESSMENT - LINCOLN COUNTY, MONTANA**

Hazard Category	Hazard	Potential Impacts	VULNERABILITY FACTORS			Potential Human Life or Health Impacts	Property Loss Potential	Overall Vulnerability Score
			Frequency/ Probability of Occurrence	Potential Extent of Exposure	Severity of Impacts			
Weather	Winter Storm	Power outage/road closure	4	4	1	1	1	11
		Infrastructure damage	4	4	2	1	1	12
		Building damage	3	3	2	1	2	11
		Human life/health						
	Wind - microburst	Power outage/road closure	2	2	1	1	1	7
		Infrastructure damage	2	2	1	1	1	7
		Building damage	2	1	1	1	1	6
Flood	Snowmelt	Drowning/stranding	3	1	2	2	NA	8
		Power outage/road closure	4	4	1	1	1	11
		Infrastructure damage	4	4	1	1	3	13
		Building damage	3	4	2	1	3	13
	Rain	Drowning/stranding	3	1	2	2	NA	8
		Power outage/road closure	4	3	1	1	1	10
		Infrastructure damage	4	3	1	1	3	12
		Building damage	3	2	2	1	3	11
	Dam Failure	Drowning/stranding	1	3	1	3	NA	8
		Power outage/road closure	1	3	1	1	1	7
		Infrastructure damage	1	3	1	1	4	10
		Building damage	1	3	1	1	4	10
Fire	Wildfire	Power outage/road closure	4	4	1	1	1	11
		Building damage	3	4	3	1	3	14
		Infrastructure damage	3	3	3	1	3	13
		Injury or loss of life	3	4	4	3	NA	14
		Smoke inhalation	4	4	3	3	NA	14
Earthquake	Earth movement	Power outage/road closure	1	1	1	1	1	5
		Infrastructure damage	1	1	1	1	2	6
		Building damage	1	1	1	1	2	6
Landslide	Slip/rotational failure	Power outage/road closure	3	1	1	1	1	7
		Building damage	3	1	1	1	1	7
Avalanche	Snow avalanche	Power outage/road closure	3	1	1	1	1	7
Man Caused	Terrorism	Bio- human disease	1	3	1	2	NA	7
		Bio - animal disease	1	2	1	2	NA	6
		Infrastructure damage	1	2	1	1	4	9
	Civil disturbance	Infrastructure damage	1	1	1	1	1	5
	HAZMAT spill - Railroad	Human health threat	3	2	1	2	NA	8
		Environmental threat	3	2	1	1	NA	7
	HAZMAT spill - highway	Human health threat	3	2	1	2	NA	8
		Environmental threat	4	2	1	1	NA	8

Impact - Score high, medium , low (3,2,1) depending on potential for loss of life, personal property and public infrastructure

Frequency - Score (4,3,2,1) - likely to occur in next 5, 10, 20 or greater than 20 years

Exposure - Score (4,3,2,1) very high, high, medium, low depending on how widespread damage may be

very high = >100 structures or >5 critical facilities; high = 50 -100 structures or 2-5 critical facilities; medium = 10-50 structures or at least one critical facility; low = <10 structures and no critical facilities

Severity = Score (4,3,2,1) - potential amount of damage to structure, facilities, population (100%, 75%, 50%, 25%)

Life/Health Impact - Score high, medium, low (3,2,1) depending on potential for loss of life or human health impacts

Loss Potential = Score (4,3,2,1) - potential property at risk from single occurrence; 4 - > \$50 million, 3 - \$10-50 million, 2- \$1-10 million, 1 - < \$1 million



Table 3-6 presents the results of the risk calculations for all of Lincoln County.

Potential property damage costs related to individual hazards are also presented in Table 3-6. Property loss ranges are intended to provide a relative evaluation of risk posed by the different hazard types. The cost estimate ranges were calculated from the base assumptions used in the risk/vulnerability evaluation. Property loss potential was estimated based on number and type of structures potentially impacted by a hazard/disaster event (Extent of Exposure) multiplied by the Severity rating multiplied by an average value for structures or infrastructure. The Lincoln County Assessor provided an estimate of average residential unit value of \$100,000. The Assessor's value is higher than the valuation estimate provided by the Census Bureau's 2000 database for census blocks within Lincoln County (\$62,700), but either is reasonable for use in establishing relative loss valuations. Estimating valuation for commercial and public buildings and infrastructure is even more difficult than for residential property because public records are not organized to easily provide this data. There were 581 private non-farm businesses in Lincoln County in 1999 (US Census Bureau, 2001a). These businesses range from one-person in-home establishments to large stores and industrial facilities. County tax records indicate 2004 valuations of approximately \$41 million for electric utilities, \$49 million for railroad, and \$13 million for telephone and cable systems. To estimate valuation for this Plan, a value of \$200,000 per commercial establishment or \$2 million per commercial block, was used. Similarly there is a wide range in value of publicly owned buildings and infrastructure from small metal buildings housing a rural fire district or ambulance with a replacement value of \$100,000 or less to the Libby Dam with a replacement cost of hundreds of millions of dollars.

### **3.5.6 Future Vulnerabilities**

As discussed in Section 3.3.3, growth in Lincoln County will continue to cause increased demands on County and City services and continue to put new residences in locations of potential natural hazards. Of particular note is the increased number of residences located in forested areas peripheral to existing development. Not only are the residents at risk of eventual wildfire, but County and City resources for fire protection are increasingly stretched. Revised flood plain mapping in the community of Libby is expected to be

available soon, and will allow better definition of areas at risk for flooding from area streams. Another concern raised by local residents is that as security is tightened at Border crossings near more populated areas, there may be increased risk of terrorism or disease at rural locations such as Lincoln County.

## **4.0 MITIGATION STRATEGY**

Specific mitigation goals and projects were developed for Lincoln County in conjunction with input from the public meetings held in the three largest incorporated communities and those contacted regarding the proposed Plan. During the period of PDM Plan development, the Lincoln County Community Fire Plan Steering Committee, operating under a grant funded by the National Fire Plan, developed a Fire Mitigation Plan to address wildfire issues Countywide. The fire mitigation planning process and PDM Plan development were coordinated through the LEPC public meetings and by sharing information and reviewing both plans to see where they overlap and where they may complement each other. Steering Committee members participated in the PDM planning process and a number of components of the Fire Mitigation Plan are included in this Plan.

A matrix developed for project ranking that emphasized input from local stakeholders was used to determine the community's priorities. Following is a description of goals and objectives used to mitigate potential natural and potential man-caused hazards that builds on the community's existing capabilities. Project implementation and legal framework are also discussed in this section.

### **4.1 LOCAL HAZARD MITIGATION GOALS**

The Plan goals describe the overall direction that Lincoln County agencies, organizations and citizens propose to take toward mitigating risk from natural and man-caused hazards. Goals and objectives of the Plan were developed during interviews and meetings with public officials and at the public meetings held in Libby, Troy and Eureka. Lincoln County hazard mitigation goals are identified below.

- Minimize Risk of Wildfire at Urban Interface;
- Reduce Impacts from Flooding;
- Reduce Risk and Impacts of Hazardous Material Incidents; and
- Reduce Risk of Biological Hazards.

## **4.2 MITIGATION OBJECTIVES AND ACTIONS**

Mitigation objectives and specific actions or potential projects identified by the County as part of the Pre-Disaster Mitigation Planning process are described in this Section. A variety of funding sources may be available to assist with these projects including federal funds through FEMA, the Forest Service and the Bureau of Land Management. Lincoln County will seek to secure funding sources to implement these projects in the future.

### **Minimize Risk of Wildfire at Urban Interface**

- Institute fuel control activities, such as thinning and fire breaks, particularly near more highly populated areas.
- Support alternative methods to burning when reducing fuel hazards, such as chipping and harvest.
- Educate landowners about alternatives to burning slash such as chipping or community dump.
- Promote “fire wise” education efforts in communities and schools.
- Institute weed control measures (mowing) around towns.

### **Improve Fire Fighting Capabilities**

- Develop water storage capacity and water supply sites to enhance fire-fighting capability.
- Improve fire agency infrastructure (training facility; additional fire equipment storage; enhanced communications systems).
- Provide for shared database between fire suppression agencies on: road closures, water sources, fuel ratings, district boundaries, ignition hazards and railroads.
- Use enhanced 911 inventory to identify residences and critical infrastructure.
- Identify areas with high number of fire starts and inadequate suppression equipment.

### **Reduce Impacts from Flooding**

- Obtain and disseminate revised flood plain mapping to increase knowledge of flood prone areas.
- Complete engineering evaluation of additional flood control measures within 100-year flood plain in Libby and other identified flood prone areas.
- Evaluate bridges and culverts at risk from flooding and develop schedule and funding to replace or upgrade as necessary.
- Improve roads and road drainage to withstand flood flows in selected areas.

### **Reduce Risk of Hazardous Material Incidents**

- Improve training of first responders.
- Improve emergency communications network throughout the county.

### **Reduce Risk of Border Crossing Disease**

- Encourage Border Patrol to improve holding facilities and evaluation capabilities at Border crossing.

## **4.3 PROJECT RANKING AND PRIORITIZATION**

The public input process was used to obtain information to rank hazards and associated mitigation objectives. Input in the public LEPC meetings led to consensus values for local community priorities. Public concerns and input and cost benefit of mitigation objectives/projects have been used to rank the general mitigation objectives/projects using the Priority Ranking values in the hazard ranking matrix; values of 3 to 4 are characterized as a Low priority, 5-6 as Medium and 7–8 as High. Project costs and the cost benefits of specific projects may be used to modify the priority ranking as specific projects and their associated costs are evaluated. Table 4-1 presents a summary of mitigation objectives with the associated hazards for Lincoln County.

**TABLE 4-1. HAZARD MITIGATION RANKING - LINCOLN COUNTY, MONTANA**

			Priority Rating *	
Hazard Category	Hazard	Potential Impacts		MITIGATION
Weather	Winter Storm	Power outage	Medium	
		Road closure	High	
		Building damage	Medium	
	Wind - microburst	Power outage	Low	
		Road closure	Low	
		Building damage	Low	
Flood	Snowmelt	Drowning/stranding	High	Educate on flood prone areas; control projects; upgrade bridges & culverts
		Power outage	Low	
		Road closure	Low	
		Building damage	High	
	Rain	Drowning/stranding	High	Educate on flood prone areas; control projects; upgrade bridges & culverts
		Power outage	Low	
		Road closure	Low	
		Building damage	Medium	
	Dam Failure	Drowning/stranding	Medium	
		Power outage	Medium	
		Road closure	Medium	
		Building damage	Medium	
Fire	Wildfire	Road closure	High	Fuel Control Projects such as thinning and fire breaks; improve fire control capability
		Building damage	High	
		Injury or loss of life	High	
		Smoke inhalation	High	
Earthquake	Earth movement	Power outage	Low	
		Road closure	Low	
		Building damage	Low	
Landslide	Slip/ rotational failure	Road blockage	Low	Provide information on problem areas
	Debris avalanche	Homes or buildings	Low	
Avalanche	Snow avalanche	Road blockage	Low	
Man Caused	Terrorism	Bio- human disease	Medium	
		Bio - animal disease	Low	
		Infrastructure damage	Low	
	Civil disturbance	Infrastructure damage	Low	
	HAZMAT spill - Railroad	Human health threat	Low	Improve emergency response training & upgrade communications equipment
		Environmental threat	Low	
	HAZMAT spill - highway	Human health threat	Low	Improve emergency response training & upgrade communications equipment
		Environmental threat	Low	

Priority Rating from Table 3-2

The Emergency Management Agency Director, consulting with the Local Emergency Planning Committee (LEPC), also provided input to the ranking of mitigation objectives. Objectives identified by Lincoln County as top priorities are presented in Section 4.2 above and in Table 4-1.

#### **4.4 PROJECT IMPLEMENTATION AND LEGAL FRAMEWORK**

Once the Lincoln County PDM Plan is formally adopted, the County will use the Plan to focus project prioritization and direct funding efforts. Mitigation projects will be considered for funding through federal and state grant programs, and when other funds are made available through the County. The LEPC, a consortium of local officials and disaster planning personnel, would likely have input to hazard mitigation projects. The LEPC and the DES office have the capacity to organize resources, prepare grant applications, and oversee project implementation, monitoring, and evaluation. Coordinating organizations may include local, county, or regional agencies that are capable of, or responsible for, implementing activities and programs. The Board of Commissioners would generally determine project coordination and administration responsibility.

A number of state and local regulations and policies form the legal framework available to implement Lincoln County's hazard mitigation goals and projects. A list of these regulations and plans is presented below.

##### **State of Montana**

- Montana Subdivision and Platting Act
- Montana Building Codes
- Montana Sanitation Regulations
- Uniform Fire Code

##### **Subdivision Local**

- Septic Sewer permits
- Fire Threat Assessment

A summary of how the PDM Plan can be integrated into this legal framework is presented below.

- Initiate a planning and public education effort in conjunction with flood mitigation projects to prevent development in flood-prone areas.
- Partner with other organizations and agencies with similar goals to promote building codes that are more disaster resistant on the State level.
- Develop incentives for local governments, citizens, and businesses to pursue hazard mitigation projects.
- Allocate county resources and assistance for mitigation projects.
- Partner with other organizations and agencies in northwest Montana to support hazard mitigation activities.



## **5.0 PLAN MAINTENANCE PROCEDURES**

The Plan maintenance section of this document details the formal process that will ensure that the Lincoln County Pre-Disaster Mitigation Plan remains an active and up-to-date document. The Plan maintenance process includes a schedule for monitoring and evaluating the Plan and producing a Plan revision every five years. This section describes how the county will integrate public participation throughout the Plan maintenance process. Also included in this section is an explanation of how Lincoln County government intends to incorporate the mitigation strategies outlined in this Plan into existing planning mechanisms.

### **5.1 MONITORING, EVALUATING AND UPDATING THE PLAN**

The Lincoln County Pre-Disaster Mitigation Plan will be reviewed every two years, or as deemed necessary by knowledge of new hazards, vulnerabilities, or other pertinent reasons. The review will determine whether a Plan update is needed prior to the required five-year update. The Plan review will identify new mitigation projects and evaluate the effectiveness of mitigation priorities and existing programs.

The Emergency Management Agency Director will be responsible for scheduling a meeting of the Lincoln County Commissioners and City officials at Eureka, Libby, Rexford and Troy to review and update the Plan. The meetings will be open to the public and advertised in the local newspaper to solicit public input. The County Commissioners, assisted by the Local Emergency Planning Committee (LEPC) and the public, will review the goals and mitigation projects to determine their relevance to changing situations in the county, as well as changes in state or federal policy, and to ensure they are addressing current and expected conditions. The LEPC and public will also review the risk assessment portion of the Plan to determine if this information should be updated or modified, given any new available data. The list of critical facilities will also be reviewed and enhanced with additional details. The Emergency Management Agency Director will give a status report detailing the success of various mitigation projects, difficulties encountered, success of coordination efforts, and which strategies should be revised. The status report will be published in the local newspaper and posted on the County Web site to update local citizens.

The Emergency Management Agency Director, assisted by the LEPC, will be responsible for the five year update of the Plan, and will have six months to make appropriate changes to the Plan before submitting it to the County Commissioners, City officials and public for review and approval. Before the end of the five-year period, the updated Plan will be submitted to the State Hazard Mitigation Officer and the FEMA for acceptance. The Emergency Management Agency Director will notify all holders of the county Plan when changes have been made.

## **5.2 IMPLEMENTATION THROUGH EXISTING PROGRAMS**

Lincoln County has a hazard Operations Plan that provides details on emergency response to a variety of hazards. This Plan has referenced the Emergency Operations Plan and where feasible will utilize Emergency Operations Plan resources and procedures to help meet mitigation objectives.

The County has developed a wildland/urban interface fire mitigation plan (Lincoln County, 2003).

The PDM Plan has placed a high priority on mitigating wildfire impacts. Coordination of the PDM Plan and fire mitigation plan will be under the direction of the local emergency management director, serving as the county fire warden, the fire plan steering committee and fire chiefs with jurisdiction in targeted areas.

Lincoln County has no zoning or countywide building codes other than those established at a State level. The City of Libby has a Building Inspector responsible for administering the building codes in Libby. Countywide the State Fire Marshal enforces the Uniform Fire Code. These offices will continue to work with the State Building Code Office to ensure that the County is enforcing the standards established in the State Building Codes. In addition, the City of Libby and Lincoln County will work with other agencies at the state level to review, develop and ensure that building codes are adequate to mitigate or prevent damage by natural hazards.

The County Planner will utilize the Plan as to the extent feasible to supplement future planning efforts and as an educational tool to inform the public about natural hazards.

The Lincoln County DES office currently is working on mapping critical infrastructure within the designated flood areas. The DES office plans on expanding this effort to include GIS mapping of critical infrastructure throughout the County, as funding becomes available.

### **5.3 CONTINUED PUBLIC INVOLVEMENT**

Lincoln County is dedicated to involving the public directly in review and updates of the Pre-Disaster Mitigation Plan. The public will have many opportunities to provide feedback about the Plan. Copies of the Plan will be catalogued and kept at the County Commissioners offices in Libby and Eureka as well as at the Eureka, Libby and Troy Public Libraries. City offices in Libby, Eureka, Troy and Rexford will also be provided copies. Section 2.0 of the Plan includes the address and the phone number of the Emergency Management Agency Director responsible for keeping track of public comments on the Plan.

Public meetings will be held as part of each two-year review and the required five-year update of the Plan. The meetings will provide a forum for public input to the Plan. The Emergency Management Agency Director will be responsible for using county resources to publicize future public meetings and maintain public involvement through the local media including the DES web site, newspapers and radio.

## 6.0 REFERENCES

- DES, 2001. State of Montana Natural Hazards Mitigation Plan. Prepared by Division of Disaster and Emergency Services and Montana's Hazard Mitigation Team, October, 2001.
- FEMA, 1997. Multi Hazard Identification and Risk Assessment. A corner stone of the National Mitigation Strategy. Federal Emergency Management Agency.
- Lincoln County, 2004 (as revised). Lincoln County Emergency Operations Plan.
- Lincoln County, 2003. Lincoln County Wildland/Urban Interface Fire Mitigation Plan.
- Montana Department of Labor and Industry, 2001. Annual Average Labor Force Summary Report.
- U.S. Bureau of the Census, 2001. Profile of General Demographic Characteristics for 2000.
- U.S. Bureau of the Census, 2001b. Table A98-30 (Estimated Number and Percent People of All Ages in Poverty by County: Montana).
- U.S. Corps of Engineers 2000 (revised 2004). Flood Emergency Plan, Libby Dam.
- US Geological Survey Earthquake Data Base, 2002. *(Available on line at <http://geohazards.cr.usgs.gov/eq/2002April03/WUS/WUSpga500v4.gif>).*

**APPENDIX A**

**RESOLUTIONS AND DOCUMENTATION OF  
PDM PLAN ACCEPTANCE BY LOCAL JURISDICTIONS**

**RESOLUTION FOR ADOPTION OF LINCOLN COUNTY  
PRE-DISASTER MITIGATION PLAN**

**WHEREAS**, Lincoln County is committed to supporting comprehensive planning and preparation for potential disasters and emergency situations, and;

**WHEREAS**, future federal funding of disaster relief from the Federal Emergency Management Agency (FEMA) to local administrations such as Lincoln County and incorporated Cities/Towns within said county, is contingent on completion of a Pre-Disaster Mitigation Plan, and;

**WHEREAS**, Lincoln County Commissioners have reviewed the plan prepared under the supervision of the Lincoln County Emergency Management Agency;

**BE IT THEREFORE RESOLVED**, by the Lincoln County Board of Commissioners that Lincoln County adopt the Lincoln County Pre-Disaster Mitigation Plan (October 2004).

**DONE IN SESSION** this 23 day of February, 2005.

**LINCOLN COUNTY BOARD OF COMMISSIONERS**

Marianne B. Roose  
Marianne Roose, Chairman

Rita Windom  
Rita Windom, Member

John Konzen  
John Konzen, Member

**ATTEST:** Coral M. Cummings  
Coral M. Cummings, Clerk of the Board

RESOLUTION NO. 01-05

**RESOLUTION FOR ADOPTION OF LINCOLN COUNTY  
PRE-DISASTER MITIGATION PLAN**

**WHEREAS**, Lincoln County is committed to supporting comprehensive planning and preparation for potential disasters and emergency situations, and;

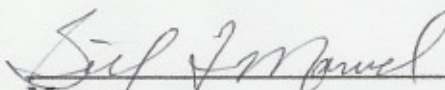
**WHEREAS**, future federal funding of disaster relief from the Federal Emergency Management Agency (FEMA) to local administrations such as Lincoln County and incorporated Cities/Towns within said county, is contingent on completion of a Pre-Disaster Mitigation Plan, and;

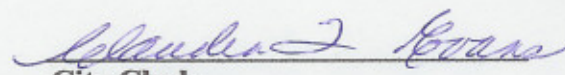
**WHEREAS**, the City/Town Council have reviewed the plan prepared under the supervision of the Lincoln County Emergency Management Agency;

**BE IT THEREFORE RESOLVED**, by the City/Town Council of Rexford, Montana to adopt the Lincoln County Pre-Disaster Mitigation Plan (October 2004).

**PASSED BY THE CITY/TOWN COUNCIL AND APPROVED BY THE MAYOR**

This 7<sup>th</sup> day of January, 2004~~5~~

  
\_\_\_\_\_  
Mayor,

  
\_\_\_\_\_  
City Clerk,



RESOLUTION NO. 2005-596

**RESOLUTION FOR ADOPTION OF LINCOLN COUNTY  
PRE-DISASTER MITIGATION PLAN**

**WHEREAS**, Lincoln County is committed to supporting comprehensive planning and preparation for potential disasters and emergency situations, and;

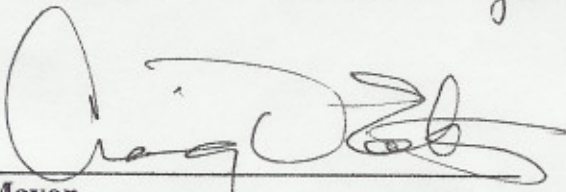
**WHEREAS**, future federal funding of disaster relief from the Federal Emergency Management Agency (FEMA) to local administrations such as Lincoln County and incorporated Cities/Towns within said county, is contingent on completion of a Pre-Disaster Mitigation Plan, and;

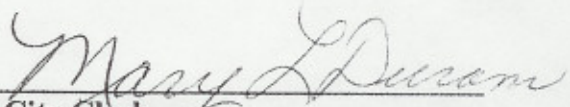
**WHEREAS**, the City/Town Council have reviewed the plan prepared under the supervision of the Lincoln County Emergency Management Agency;

**BE IT THEREFORE RESOLVED**, by the City/Town Council of Eureka, Montana to adopt the Lincoln County Pre-Disaster Mitigation Plan (October 2004).

**PASSED BY THE CITY/TOWN COUNCIL AND APPROVED BY THE MAYOR**

This 10<sup>th</sup> day of January, ~~2004~~ 2005.

  
\_\_\_\_\_  
Mayor,

  
\_\_\_\_\_  
City Clerk,



**RESOLUTION NO. 572**

**RESOLUTION FOR ADOPTION OF LINCOLN COUNTY  
PRE-DISASTER MITIGATION PLAN**

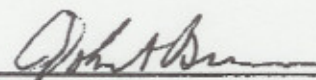
**WHEREAS**, Lincoln County is committed to supporting comprehensive planning and preparation for potential disasters and emergency situations, and;

**WHEREAS**, future federal funding of disaster relief from the Federal Emergency Management Agency (FEMA) to local administration such as Lincoln County and incorporated Cities/Towns within said county, is contingent on completion of a Pre-Disaster Mitigation Plan, and;

**WHEREAS**, The Troy City Council has reviewed the plan prepared under the supervision of the Lincoln County Emergency Management Agency;

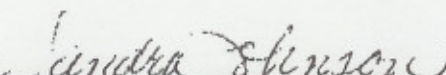
**BE IT THEREFORE RESOLVED**, by the City of Troy, Montana to adopt the Lincoln County Pre-Disaster Mitigation Plan (October 2004).

**PASSED BY THE CITY COUNCIL AND APPROVED BY THE MAYOR** this 22nd day of December, 2004.

  
\_\_\_\_\_  
John A. Brown, Mayor

**ATTEST:**



  
\_\_\_\_\_  
Sandra Johnson, City Clerk/Treasurer

## RESOLUTION NO. 1633

RESOLUTION BY THE CITY OF COUNCIL OF THE CITY OF LIBBY  
FOR ADOPTION OF LINCOLN COUNTY  
PRE-DISASTER MITIGATION PLAN

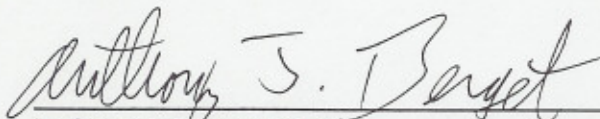
WHEREAS, Lincoln County is committed to supporting comprehensive planning and preparation for potential disasters and emergency situations, and;

WHEREAS, future federal funding of disaster relief from the Federal Emergency Management Agency (FEMA) to local administrations such as Lincoln County and incorporated Cities/Towns within said county, is contingent on completion of a Pre-Disaster Mitigation Plan, and;

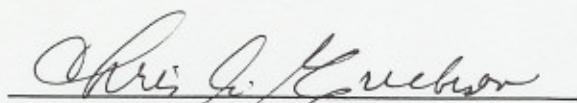
WHEREAS, the City Council have reviewed the plan prepared under the supervision of the Lincoln County Emergency Management Agency;

BE IT THEREFORE RESOLVED, by the City Council of Libby, Montana to adopt the Lincoln County Pre-Disaster Mitigation Plan (October 2004).

PASSED by the City Council and approved by the Mayor this 7th day of February, 2005.

  
Anthony J. Berget, Mayor


ATTEST:

  
Chris A. Erickson, City Clerk

## **APPENDIX B**

### **LINCOLN COUNTY SEVERE WEATHER EVENTS**

**SOURCE: NOAA CLIMATE DATA WEB SITE**

 [NCDC](#) / [Climate Resources](#) / [Climate Data](#) / [Events](#) / [Storm Events](#) / [Results](#) / [Search](#) / [Help](#)

## Query Results

**162** event(s) were reported in **Lincoln County, Montana** between **01/01/1950** and **05/31/2004** (**High Wind limited to speed greater than 0 knots**).

**Mag:** Magnitude  
**Dth:** Deaths  
**Inj:** Injuries  
**PrD:** Property Damage  
**CrD:** Crop Damage

*Click on Location or County to display Details.*

### Montana

Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
<a href="#">1 LINCOLN</a>	06/26/1964	1900	Tstm Wind	0 kts.	0	0	0	0
<a href="#">2 LINCOLN</a>	08/11/1968	1330	Hail	3.00 in.	0	0	0	0
<a href="#">3 LINCOLN</a>	06/22/1973	1930	Tstm Wind	70 kts.	0	0	0	0
<a href="#">4 LINCOLN</a>	07/05/1979	2145	Tstm Wind	0 kts.	0	0	0	0
<a href="#">5 LINCOLN</a>	07/12/1981	1900	Tstm Wind	87 kts.	0	0	0	0
<a href="#">6 LINCOLN</a>	06/23/1983	2200	Hail	1.00 in.	0	0	0	0
<a href="#">7 LINCOLN</a>	06/23/1983	2200	Tstm Wind	0 kts.	0	0	0	0
<a href="#">8 LINCOLN</a>	04/30/1987	1800	Tstm Wind	78 kts.	0	0	0	0
<a href="#">9 LINCOLN</a>	07/17/1991	0215	Tstm Wind	0 kts.	0	0	0	0
<a href="#">10 MTZ001</a>	01/03/1993	1700	Heavy Snow	N/A	0	0	50K	0
<a href="#">11 MTZ001</a>	01/04/1993	1400	Blizzard	N/A	0	0	50K	0
<a href="#">12 MTZ001 - 003 - 006</a>	01/22/1993	0400	Heavy Snow	N/A	0	0	5K	0
<a href="#">13 MTZ001</a>	01/24/1993	2000	Heavy Snow	N/A	0	0	5K	0
<a href="#">14 MTZ001</a>	11/21/1993	1400	Blizzard/winter Storm	N/A	0	0	500K	0
<a href="#">15 MTZ001</a>	12/30/1993	2000	Heavy Snow	N/A	0	0	5K	0
<a href="#">16 MTZ001</a>	02/06/1994	1100	Winter Storm	N/A	0	0	50K	0
<a href="#">17 MTZ001</a>	10/01/1994	1700	High Winds	0 kts.	0	0	0K	0



18 MTZ001 - 003 - 004	10/02/1994	0000	Heavy Snow	N/A	0	0	0	0
19 MTZ001 - 003 - 004 - 006	11/25/1994	1200	Heavy Snow	N/A	0	0	500K	0
20 MTZ001	12/08/1994	1800	Heavy Snow	N/A	0	0	0	0
21 MTZ001 004	12/15/1994	1700	Heavy Snow	N/A	0	0	0	0
22 MTZ001	01/09/1995	1700	Freezing Rain	N/A	0	0	50K	0
23 MTZ001	01/14/1995	0700	Mud Slides Urban Flooding	N/A	0	0	5K	0
24 Mtz 004 007>009	01/15/1995	2000	Heavy Snow	N/A	0	0	50K	0
25 MTZ001	02/15/1995	1000	Heavy Snow	N/A	0	0	0	0
26 MTZ001>008	03/04/1995	2200	Heavy Snow	N/A	0	0	0	0
27 Fort Wood	03/26/1995	1925	Hail	1.00 in.	0	0	0	0
28 MTZ001	06/06/1995	1200	Flood	N/A	0	0	350K	0
29 MTZ001	06/06/1995	1200	Heavy Snow	N/A	0	0	0	0
30 Mountains	06/19/1995	1200	Heavy Snow	N/A	0	0	0	0
31 LINCOLN	07/09/1995	1730	Tstm Wind	50 kts.	0	0	0	0
32 Billings	07/09/1995	1755	Tstm Wind	0 kts.	0	0	0	0
33 MTZ001>005	11/06/1995	1200	Winter Storm	N/A	0	0	0	0
34 MTZ001	11/11/1995	0000	Heavy Snow	N/A	0	0	0	0
35 MTZ001 - 002	11/30/1995	0000	Flood	N/A	0	0	0	0
36 MTZ001>009	12/04/1995	0200	High Winds	0 kts.	0	0	0	0
37 MTZ001	12/07/1995	1600	High Winds	0 kts.	0	0	30K	0
38 MTZ001>003 - 005 - 006	12/10/1995	0000	Winter Storm	N/A	0	0	0	0
39 MTZ001 - 002 - 004 - 007	12/30/1995	1700	Heavy Snow	N/A	0	0	0	0
40 MTZ001>002	01/03/1996	08:00 AM	Heavy Snow	N/A	0	0	0	0
41 MTZ001>002	01/19/1996	08:00 AM	Heavy Snow	N/A	0	0	0	0
42 MTZ001>002	01/20/1996	09:00 PM	Heavy Snow	N/A	0	0	0	0
43 MTZ001>002	01/23/1996	08:00 PM	Heavy Snow	N/A	0	0	0	0
44 MTZ001>002	01/27/1996	08:00 AM	Heavy Snow	N/A	0	0	0	0

45 MTZ001	02/04/1996	08:00 AM	Avalanche	N/A	0	0	0	0
46 MTZ001	02/07/1996	03:00 AM	Extreme Cold	N/A	0	0	0	0
47 MTZ001>002	02/07/1996	08:00 AM	Flood	N/A	0	0	0	0
48 MTZ001	03/02/1996	12:00 AM	Heavy Snow	N/A	0	0	0	0
49 MTZ001	03/03/1996	08:30 AM	Heavy Snow	N/A	0	0	0	0
50 MTZ001	03/04/1996	11:00 AM	Heavy Snow	N/A	0	0	0	0
51 MTZ001	03/23/1996	11:30 PM	High Wind	60 kts.	0	0	0	0
52 MTZ001	03/29/1996	09:00 PM	Heavy Snow	N/A	0	0	0	0
53 MTZ001	03/30/1996	04:00 AM	Heavy Snow	N/A	0	0	0	0
54 MTZ001	03/31/1996	08:30 AM	Heavy Snow	N/A	0	0	0	0
55 MTZ001	04/01/1996	12:00 AM	Heavy Snow	N/A	0	0	0	0
56 MTZ001	04/10/1996	08:00 AM	Flood	N/A	0	0	0	0
57 MTZ001	04/19/1996	08:48 PM	Heavy Snow	N/A	0	0	0	0
58 MTZ001	04/24/1996	02:45 PM	High Wind	45 kts.	0	0	0	0
59 MTZ001	05/07/1996	08:00 AM	Heavy Snow	N/A	0	0	0	0
60 Libby	05/16/1996	08:00 AM	Urban/sml Stream Fld	N/A	0	0	0	0
61 MTZ001	05/23/1996	12:20 AM	Heavy Snow	N/A	0	0	0	0
62 MTZ001>002	06/04/1996	08:00 AM	Flood	N/A	3	0	0	0
63 MTZ001	09/17/1996	07:00 AM	Heavy Snow	N/A	0	0	0	0
64 MTZ001 - 004	11/16/1996	03:00 PM	Heavy Snow	N/A	0	0	0	0
65 MTZ001>007	11/18/1996	08:00 AM	Winter Storm	N/A	2	1	0	0
66 MTZ001>002 - 004	11/21/1996	11:00 PM	Winter Storm	N/A	0	0	0	0
67 MTZ001	12/01/1996	05:00 AM	Heavy Snow	N/A	0	0	0	0
68 MTZ001	12/07/1996	09:00 PM	Heavy Snow	N/A	0	0	0	0
69 MTZ001>002 - 004	12/13/1996	03:00 AM	Heavy Snow	N/A	0	0	0	0
70 MTZ001>007	12/20/1996	07:00 AM	Winter Storm	N/A	1	0	0	0
71 MTZ001	12/21/1996	12:00 AM	Heavy Snow	N/A	0	0	0	0
72 MTZ001	01/01/1997	12:00 AM	Heavy Snow	N/A	0	0	0	0
73 MTZ001	02/02/1997	08:00 AM	Heavy Snow	N/A	0	0	0	0

74 MTZ001	02/07/1997	08:00 AM	Heavy Snow	N/A	0	0	0	0
75 MTZ001>003 - 006	02/26/1997	12:00 AM	Heavy Snow	N/A	0	0	0	0
76 MTZ001	03/07/1997	04:45 PM	High Wind	51 kts.	0	0	0	0
77 MTZ001>004	03/12/1997	08:00 AM	Winter Storm	N/A	0	0	0	0
78 MTZ001 - 004	03/15/1997	06:00 AM	Heavy Snow	N/A	0	0	0	0
79 MTZ001	03/18/1997	08:00 PM	Flood	N/A	0	0	0	0
80 MTZ001>002	03/20/1997	04:25 PM	Flood	N/A	0	0	0	0
81 MTZ001 - 004 - 006	04/03/1997	05:45 PM	Heavy Snow	N/A	0	0	0	0
82 MTZ001	04/21/1997	12:00 AM	Flood	N/A	0	0	0	0
83 MTZ001>005 - 007	05/01/1997	12:01 AM	Flood	N/A	0	0	2.3M	0
84 Troy	05/31/1997	03:40 PM	Tstm Wind	52 kts.	0	0	0	0
85 Libby	07/21/1997	06:15 PM	Tstm Wind	70 kts.	0	2	1.5M	0
86 Libby	07/29/1997	04:00 PM	Funnel Cloud	N/A	0	0	0	0
87 Trego	08/05/1997	04:50 PM	Hail	1.75 in.	0	0	0	0
88 Libby	09/05/1997	07:50 PM	Hail	0.75 in.	0	0	0	0
89 MTZ001 - 004>005	03/04/1998	03:00 AM	Heavy Snow	N/A	0	0	0	0
90 Troy	05/20/1998	07:00 PM	Tstm Wind	52 kts.	0	0	0	0
91 Yaak	05/20/1998	07:30 PM	Tstm Wind	52 kts.	0	0	0	0
92 Libby	05/25/1998	05:15 PM	Hail	0.75 in.	0	0	0	0
93 Libby	05/29/1998	04:00 PM	Tstm Wind	52 kts.	0	1	0	0
94 Libby	07/10/1998	12:23 PM	Tstm Wind/hail	0 kts.	0	0	0	0
95 MTZ001>002 - 004 - 006>007	11/20/1998	12:00 PM	Heavy Snow	N/A	0	0	0	0
96 MTZ001>002 -	12/02/1998	03:00 PM	Heavy Snow	N/A	0	0	0	0


004								
97 MTZ001>002 - 004 - 006	12/27/1998	03:00 PM	Heavy Snow	N/A	0	0	0	0
98 MTZ001>002 - 006>007 - 043	12/29/1998	04:00 AM	Heavy Snow	N/A	0	0	0	0
99 MTZ001>002 - 004 - 043	01/10/1999	10:00 AM	Heavy Snow	N/A	0	0	0	0
100 MTZ001>002 - 004	01/27/1999	04:15 PM	Heavy Snow	N/A	0	0	0	0
101 MTZ001>004	02/01/1999	08:00 PM	Winter Storm	N/A	0	0	0	0
102 MTZ001>002 - 004 - 006>007 - 043	02/06/1999	04:00 AM	Winter Storm	N/A	0	0	0	0
103 MTZ001>003 - 006 - 043	02/18/1999	11:00 PM	Heavy Snow	N/A	0	0	0	0
104 MTZ001 - 005	05/25/1999	12:00 AM	Flood	N/A	0	0	0	0
105 MTZ001>002 - 004 - 006 - 043	11/24/1999	01:45 PM	Heavy Snow	N/A	0	0	0	0
106 MTZ001 - 006	12/02/1999	07:00 AM	Heavy Snow	N/A	0	0	0	0
107 MTZ001>002 - 004 - 006 - 043	12/06/1999	10:15 AM	Heavy Snow	N/A	0	0	0	0
108 MTZ001>002 - 004 - 006 - 043	12/12/1999	04:15 AM	Heavy Snow	N/A	0	0	0	0
109 MTZ001>002 - 004 - 006 - 043	12/14/1999	10:00 PM	Heavy Snow	N/A	0	0	0	0
110 MTZ001>002 - 004 - 006 - 043	12/17/1999	03:30 PM	Heavy Snow	N/A	0	0	0	0
111 MTZ001>002 - 004	01/01/2000	02:30 PM	Heavy Snow	N/A	0	0	0	0
112 MTZ001>002 - 004 - 006 - 043	01/03/2000	02:30 PM	Heavy Snow	N/A	0	0	0	0
113 MTZ001 - 004>005	01/09/2000	03:30 PM	High Wind	52 kts.	0	0	0	0
114 MTZ001>002 - 004 - 006 - 043	01/13/2000	11:00 AM	Heavy Snow	N/A	0	0	0	0
115 MTZ001>002 - 004 - 043	02/01/2000	06:00 AM	Heavy Snow	N/A	0	0	0	0
116 MTZ001>002 - 004	03/14/2000	06:00 AM	Heavy Snow	N/A	0	0	0	0



117 MTZ001>002 - 004 - 007	03/27/2000	05:00 PM	Heavy Snow	N/A	0	0	0	0
118 MTZ001 - 004	11/08/2000	10:00 PM	Heavy Snow	N/A	0	0	0	0
119 MTZ001 - 003 - 043	11/29/2000	08:00 AM	Heavy Snow	N/A	0	0	0	0
120 MTZ001>007 - 043	12/14/2000	05:00 PM	Winter Storm	N/A	0	0	0	0
121 MTZ001 - 001>004 - 006 - 043	12/16/2000	02:00 PM	Heavy Snow	N/A	0	0	0	0
122 MTZ001>002 - 004	12/26/2000	12:00 PM	Heavy Snow	N/A	0	0	0	0
123 MTZ001>004 - 006 - 043	02/04/2001	07:00 AM	Heavy Snow	N/A	0	0	0	0
124 MTZ001 - 003>004 - 006	02/15/2001	06:00 AM	Winter Storm	N/A	0	0	0	0
125 MTZ001>003 - 043	04/02/2001	04:00 PM	Heavy Snow	N/A	0	0	0	0
126 MTZ001>002 - 006 - 043	04/07/2001	03:00 PM	Heavy Snow	N/A	0	0	0	0
127 Central Portion	06/01/2001	05:30 PM	Tstm Wind	52 kts.	0	0	0	0
128 MTZ001>002 - 043	10/11/2001	08:00 AM	Heavy Snow	N/A	0	0	0	0
129 MTZ001>002 - 006 - 043	10/23/2001	12:00 AM	Heavy Snow	N/A	0	0	0	0
130 MTZ001>002 - 004 - 006>007 - 043	11/28/2001	12:30 PM	Heavy Snow	N/A	0	0	0	0
131 MTZ001>002 - 004	12/01/2001	12:00 AM	Heavy Snow	N/A	0	0	0	0
132 MTZ001>002 - 004 - 006 - 043	12/12/2001	04:00 PM	Heavy Snow	N/A	0	0	0	0
133 MTZ001>002 - 004 - 006	12/15/2001	04:00 PM	Heavy Snow	N/A	0	0	0	0
134 MTZ001>002 - 004 - 006>007 - 043	01/18/2002	06:00 PM	Heavy Snow	N/A	0	0	0	0
135 MTZ001>002 - 004 - 006 - 043	01/24/2002	07:00 PM	Heavy Snow	N/A	0	0	0	0
136 MTZ001>007 - 043	03/05/2002	05:00 PM	Heavy Snow	N/A	0	0	0	0

137 MTZ001>002 - 004 - 006 - 043	03/11/2002	02:00 PM	Heavy Snow	N/A	0	0	0	0
138 MTZ001>002 - 004>006	03/18/2002	01:22 PM	Heavy Snow	N/A	0	0	0	0
139 MTZ001>003 - 043	03/20/2002	04:30 AM	Blizzard	N/A	0	0	0	0
140 Libby	04/14/2002	11:15 AM	Urban/sml Stream Fld	N/A	0	0	0	0
141 MTZ001 - 003>004 - 043	04/14/2002	11:30 AM	High Wind	74 kts.	0	2	0	0
142 Central Portion	05/19/2002	05:45 PM	Tstm Wind	55 kts.	0	1	0	0
143 MTZ001>002 - 004 - 006>007 - 043	05/21/2002	03:00 PM	Heavy Snow	N/A	0	0	0	0
144 MTZ001	05/21/2002	04:00 PM	Flood	N/A	0	0	0	0
145 MTZ001>002 - 004 - 006>007 - 043	06/08/2002	12:00 PM	Heavy Snow	N/A	0	0	0	0
146 MTZ001>003 - 005>006 - 043	08/16/2002	06:00 AM	High Wind	69 kts.	0	0	0	0
147 MTZ001>002 - 004 - 006	11/09/2002	12:00 AM	Winter Storm	N/A	0	0	0	0
148 MTZ001>004 - 006	12/26/2002	04:00 PM	Winter Storm	N/A	0	0	0	0
149 MTZ001>002 - 004	12/28/2002	04:00 PM	Heavy Snow	N/A	0	0	0	0
150 MTZ001>002 - 004	12/30/2002	11:00 AM	Heavy Snow	N/A	0	0	0	0
151 MTZ001>002 - 004 - 043	01/22/2003	04:00 PM	Heavy Snow	N/A	0	0	0	0
152 MTZ001 - 004 - 006 - 043	02/16/2003	07:00 AM	Winter Storm	N/A	0	0	0	0
153 MTZ001>002 - 004>006	03/05/2003	07:00 AM	Winter Storm	N/A	0	0	0	0
154 MTZ001 - 004 - 043	03/08/2003	10:00 PM	Heavy Snow	N/A	0	0	0	0
155 MTZ001>002 - 004 - 006	11/16/2003	03:00 PM	Winter Storm	N/A	0	0	0	0
156 MTZ001>002 - 004 - 006 - 043	11/23/2003	03:00 PM	Winter Storm	N/A	0	0	0	0

157 MTZ001>002 - 004	11/28/2003	07:00 AM	Winter Storm	N/A	0	0	0	0
158 MTZ001>002 - 043	12/13/2003	07:00 AM	Heavy Snow	N/A	0	0	0	0
159 MTZ001>004 - 043	01/01/2004	08:00 AM	Winter Storm	N/A	0	0	0	0
160 MTZ001>007 - 043	01/05/2004	06:00 AM	Extreme Cold/wind Chill	N/A	0	0	0	0
161 MTZ001	01/26/2004	04:00 PM	Winter Storm	N/A	0	0	0	0
162 MTZ001>002 - 004 - 006 - 043	03/05/2004	04:00 PM	Winter Storm	N/A	0	0	0	0
TOTALS:					6	7	5.400M	0

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 [NCDC / Climate Resources / Climate Data / Events / Storm Events / Results / Search / Help](#)

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<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~storms>

Please send questions or comments about this system to [Stuart.Hinson@noaa.gov](mailto:Stuart.Hinson@noaa.gov)

Please see the [NCDC Contact Page](#) if you have questions or comments.

## **APPENDIX C**

### **LINCOLN COUNTY PDM DEVELOPMENT CONTACT LIST**

## Lincoln County PDM Planning Conact List

First Name	Last Name	Department	Address	City	Zip
RON	ANDERSON	LINC. CO ENVIR. HEALTH	418 MINERAL AVE.	LIBBY	59923
DARYL	ANDERSON	SHERIFF	512 CALIFORNIA AVE.	LIBBY	59923
TONY	BACON	EMA	132 EDGEWATER DR.	LIBBY	59923
RAE LYNN	BENSON	LINC. CO. EXT. AGENT	418 MINERAL AVE.	LIBBY	59923
TONY	BERGET	LIBBY MAYOR	952 E. SPRUCE ST.	LIBBY	59923
BRAD	BLACK MD	LC HEALTH OFFICER	308 LOUISIANA AVE.	LIBBY	59923
GARY	BLAZ	EUREKA PUB. SCHOOL	P.O. Box 2000	EUREKA	59917
ROBY	BOWE	DT S&R/LCSO	512 CALIFORNIA AVE.	LIBBY	59923
ROD	BROSSMAN	DT S&R		LIBBY	59923
JOHN	BROWN	TROY MAYOR	301 E. KOOTENAI	TROY	59935
SHINAE	BUESCH	TROY AREA DISPATCH	P.O. BOX 635	TROY	59935
DAWAIN	BURGESS	TFS FD	P.O. BOX 121	FORTINE	59918
DALE	BYRER	LIBBY CO. RD.	512 CALIFORNIA AVE.	LIBBY	59923
BILL	CALDWELL	DNRC	14096 HWY 37 NORTH	LIBBY	59923
BASIL	CANAVAN	UPPER YAAK FD	313 UPPER FORD CUTOFF	TROY	59935
BETTY	CHALLINOR	SALVATION ARMY	418 MINERAL AVE.	LIBBY	59923
LARRY	CHAPEL	TROY FD	P.O. BOX 72	TROY	59935
BRAD	CHUPP	YAAK VOL. AMB.	42 RIVERVIEW DR.	TROY	59935
CLAY	COKER	LIBBY POLICE CHIEF	603 MINERAL AVE.	LIBBY	59923
CHARLIE	COMER	USACE	17115 HIGHWAY 37	LIBBY	59923
DAVID	COSGRIFF	ARROWHEAD ENG. INC.	P.O. BOX 843	LIBBY	59923
JOHN	DESCH	FLATHEAD ELEC. CO-OP	121 W. 4th ST.	LIBBY	59923
RON	DOWNEY	TROY CO. RD.	1210 MISSOULA AVE.	TROY	59935
GARY	DUPERT	TROY VFD	P.O. BOX 1093	TROY	59935
CRAIG	EATON	EUREKA MAYOR/POLICE	P.O. BOX 564	EUREKA	59917
FAITH	ERICKSON	CAN-AM S&R	P.O. BOX 47	EUREKA	559917
DOUG	GRIFFITHS DVM	VETERINARIAN	845 HIGHWAY 2 WEST	LIBBY	59923
MICHELE	HARMON	LIBBY PUBLIC SCHOOL	425 BLUE MOUNTAIN	LIBBY	59923
DEAN	HERRIED	FISHER RIVER FD	138 UPPER THOMPSON LK. RD	LIBBY	59923
RON	HIGGINS	LC SUPT. OF SCHOOLS	418 MINERAL AVE.	LIBBY	59923
GARRY	HOADLEY	BULL LAKE FD	P.O. BOX 1032	TROY	59935
SANDY	JACKSON	LINC. CO. HEALTH	418 MAIN AVE.	LIBBY	59923
IAN	JEFFCOCK	EUREKA VOL. AMB.	2455 HIGHWAY 93	EUREKA	59917
CURT	JONES	LVFD	P.O. BOX 796	LIBBY	59923
MARLENE	KELSCH	LIBBY PUBLIC SCHOOL	1426 RENWOOD	LIBBY	59923
JOHN	KONZEN	LINC. CO. COMMISSIONER	512 CALIFORNIA AVE.	LIBBY	59923
KIRK	KRAFT	RANCHERS FD	100 HOUGHTON CK. RD.	LIBBY	59923
MIKE	LANDON	CABINET VIEW FD	202 VICKS DRIVE	LIBBY	59923
DAVID	LATHAM	MONTANIAN	MINERAL AVE.	LIBBY	59923
STEVE	LAUER	LVFD	P.O. BOX 796	LIBBY	59923
TAMMY	LAUER	EMA	1004 NEVADA AVE.	LIBBY	59923
STEVE	MAHONEY	RED CROSS	309 E. LINCOLN BLVD.	LIBBY	59923
KIRBY	MAKI	LIBBY PUB. SCHOOL	724 LOUISIANA AVE.	LIBBY	59923
JAY	MALONEY MD	EMS DIRECTOR	350 LOUISIANA AVE.	LIBBY	59923

BILL	MARVEL	REXFORD MAYOR	142 GATEWAY	REXFORD	59930
CHARLES	McFARLAND	LVA	55 AVE. B	LIBBY	59923
MARC	McGILL	LINC. CO. EMERG. MGT	952 E. SPRUCE ST. SUITE 205	LIBBY	59923
KATHY	MEYER	LVA	110 E. POPLAR ST.	LIBBY	59923
RICCO	MONTINI	BNSF	500 DEPOT ST.	WHITEFISH	59937
RON	MORGAN	EUREKA VFD	P.O. BOX 1055	EUREKA	59917
MARY	NELSON	ST. JOHN'S HOSP.	350 LOUISIANA	LIBBY	59923
NEIL	NELSON	USFS	1101 HWY 2 WEST	LIBBY	59923
DAVE	NORMAN	TROY PUBLIC WKS.	301 KOOTENAI	TROY	59935
DOUG	PARKER	HYDROMETRICS, INC.	667 EAST BECKWITH	MISSOULA	59801
MICHAEL	PATTIE	TROY VFD	P.O. BOX 442	TROY	59935
CAROL	PETEK	LCSO DISPATCH	512 CALIFORNIA AVE.	LIBBY	59923
KEN	PETERSON	LINC. CO PLANNER	418 MINERAL AVE.	LIBBY	59923
BRIAN	PHILLIPS	U.S. BORDER PATROL	P.O. BOX 909	EUREKA	59917
ROGER	PITMAN	LINCOLN ELEC. CO-OP	P.O. 628	EUREKA	59917
MARIAN	PRAZMA	HAM/RACES	927 FRAZEY RD. W.	LIBBY	59923
DAVE	PUDELKA	U.S. CUSTOMS	8395 HIGHWAY 93 N.	EUREKA	59917
BARB	RENKEMA	DEPUTY EMA	BOX 1151	EUREKA	59917
PAM	RHODES	ACHIEVEMENTS, INC	101 MINERAL AVE.	LIBBY	59923
JOSEPH	RICHARD	EUREKA PUB. WKS.	P.O. Box 461	EUREKA	59917
MARIANNE	ROOSE	LINC. CO. COMMISSIONER	512 CALIFORNIA AVE.	LIBBY	59923
CHARLIE	RUSSELL	ST JOHN'S ALS	807 E. MISSOULA	TROY	59935
DALE	SABINE	CABINET VIEW FD	510 McMILLAN MTN. RD.	LIBBY	59923
JESS	SANDERS	LCSO	P.O. BOX 124	EUREKA	59917
BRADY	SELLE	TROY PUB. SCHOOL	236 SPOKANE AVE.	TROY	59935
PAT	SHIRA	TROY VOL. AMB.	P.O. BOX 641	TROY	59935
BRENT	SHRUM	WESTERN NEWS	311 CALIFORNIA AVE.	LIBBY	59923
MARTHA JO	SMITH	MT. DES DIST. 1 REP.	9 SILCOX LANE	T. FALLS	59873
CRYSTAL	STACEY	EUREKA DISPATCH	P.O. BOX 1500	EUREKA	59917
RAY	STOUT	TOBACCO VAL. NEWS	602 DEWEY AVE.	EUREKA	59917
VAN	SWEARINGEN	MDOT	3098 HIGHWAY 2 SOUTH	LIBBY	59923
MERRILL	TAYLOR	TROY VFD	P.O. BOX 239	TROY	59935
DAN	THEDE	LIBBY CITY PUBLIC WKS	952 E. SPRUCE ST.	LIBBY	59923
BRIAN	TODD	McCORMICK FD	PO BOX 113	TROY	59935
MITCH	WALTERS	TROY PD	301 KOOTENAI	TROY	59935
BILL	WATT	LVFD	P.O. BOX 796	LIBBY	59923
TIM	WHITE	EUREKA CO. RD.	P.O. BOX 1970	EUREKA	59917
DUANE	WILLIAMS	KLCB / KTNV	251 W. CEDAR	LIBBY	59923
RANDY	WILSON	INTERBEL TELEPHONE	P.O. Box 1471	EUREKA	59917
RITA	WINDOM	LINC. CO. COMMISSIONER	512 CALIFORNIA AVE.	LIBBY	59923
ED	WINKLER	FRONTIER COMMUN.	114 E. 4th ST.	LIBBY	59923
TOM	WOOD	LIBBY FD	P.O. BOX 796	LIBBY	59923



# **Entities, Agencies and Public Officials Contacted as Part of Lincoln County PDM Plan Development by Personal Notification of Meetings and Status Reports**

## **Elected Officials**

Lincoln County Commissioners  
John Konzen  
Marianne Roose  
Rita Windom

Mayor of Libby - Tony Berget  
Mayor of Troy - John Brown  
Mayor of Eureka - Craig Eaton  
Mayor of Rexford - Bill Marvel

## **Fire Departments/Agencies**

Bull Lake Rural Fire District  
Eureka Fire Service Area  
Fisher River Fire Service Area  
Libby Rural Fire District  
McCormick Rural Fire District  
Ranchers Fire Service Area  
Trego, Fortine, Stryker Fire Service Area  
Troy Rural Fire District  
Upper Yaak Fire District  
Cabinet View Fire Service Area

## **State Agencies**

MT Dept. Natural Resources &  
Conservation  
MT Fish, Wildlife & Parks  
MT Dept. of Transportation  
MT Disaster & Emergency Services(DES)

## **Federal Agencies**

US Forest Service – Kootenai Nat. Forest  
US Border Patrol  
US Customs  
US Corps of Engineers

## **Public Agencies/ Volunteer Entities**

Can-Am Search and Rescue  
David Thompson Search and Rescue

Eureka, Troy Area Dispatch  
Eureka, Troy, Libby City Police Dept.  
Eureka, Troy, Libby - Public Works Dept.  
Eureka, Troy Libby - Public School Dist.  
Lincoln County Sheriff's Dispatch - Libby  
Lincoln Co. Environmental Health Dept.  
Lincoln Co. Extension Agent  
Lincoln Co. Planning Department  
Lincoln Co. Road Department  
Lincoln Co. Sheriff's Department  
Lincoln Co. Superintendent of Schools  
Lincoln Co. Emergency Management  
Agency (EMA)  
Red Cross  
Salvation Army  
Achievements, Inc. (local developmentally  
disabled)  
HAM/RACES Amateur Radio

## **Private Entities**

Burlington Northern Santa Fe Railroad  
Frontier Communication  
Interbel Telephone  
KLCB/KTNY (radio)  
Montanian (newspaper)  
Western News (newspaper)  
Tobacco Valley News (newspaper)  
Flathead Electric Co-op  
Lincoln Electric Co-op

## **Public Health Agencies**

Lincoln Co. Health Dept.  
Eureka Volunteer Ambulance  
Troy Volunteer Ambulance  
Libby Volunteer Ambulance(LVA)  
St. Johns Hospital  
Veterinarian - Libby

**APPENDIX D**

**PDM MEETINGS**

**AND PUBLIC INVOLVEMENT DOCUMENTATION**

**LINCOLN COUNTY, MONTANA**



NEWS ITEM - KLCB/KTHY  
LOCAL RADIO

9-2-03

----- Original Message -----

From: "Duane J Williams" <djwillia@libby.org>

To: <lcema@libby.org>

Sent: Tuesday, September 02, 2003 2:30 PM

> KLCBKTNYNNEWS090302

>  
> (DISASTER PREPAREDNESS)

>  
>  
>  
> YOU MAY REMEMBER PROJECT IMPACT. IT IS NOW CALLED THE DISASTER MITIGATION  
> PROGRAM.

>  
> THE IDEA IS TO IDENTIFY AREAS OF POTENTIAL DISASTERS WAITING TO HAPPEN AND  
> ADDRESS THE ISSUE BEFORE THE DISASTER ENSUES.

>  
> THE FEDERAL EMERGENCY MANAGEMENT AGENCY WILL CONTRIBUTE UP TO 75% OF THE  
> COST OF PLAN AND PROJECT ACTIVITIES RELATIVE TO THE PROGRAM. SMALL,  
> IMPOVERISHED COMMUNITIES CAN RECEIVE UP TO 90%.

>  
> TO QUALIFY COMMUNITIES MUST HAVE A POPULATION OF LESS THAN THREE-THOUSAND,  
> RURAL, ECONOMICALLY DISADVANTAGED WITH RESIDENTS HAVING AN AVERAGE PER  
> CAPITA ANNUAL INCOME NOT EXCEEDING 80% OF THE NATIONAL PER CAPITAL INCOME,  
> AND HAVE A LOCAL UNEMPLOYMENT RATE THAT EXCEEDS BY ONE PERCENT AVERAGE  
> ANNUAL NATIONAL UNEMPLOYMENT RATE.

>  
> NEEDLESS TO SAY LINCOLN COUNTY MEETS THE CRITERIA IN RURAL POPULATION, PER  
> CAPITA INCOME, AND WITH CONTINUALLY ONE OF THE HIGHEST UNEMPLOYMENT RATES  
> IN THE STATE.

>  
> LINCOLN COUNTY EMERGENCY MANAGEMENT AGENCY HAS BEEN HOLDING MEETINGS IN  
> EACH OF THE THREE MAJOR COMMUNITIES TO EXPLAIN THE PLAN AND ANSWER  
QUESTIONS.

>  
> THE NEXT MEETING IS AT THE PONDEROSA ROOM AT LIBBY CITY HALL SEPTEMBER 24  
> AT 7PM. REQUESTS WILL BE MADE FOR RESIDENTS TO IDENTIFY RISKS AND HAZARDS  
> TO THE COMMUNITY TO BE INCLUDED IN THE PLANNING PROCESS FOR FUTURE  
> MITIGATION THROUGH THE PRE-DISASTER MITIGATION PROGRAM.

MONTANIAN

JANUARY 28, 2004

## Emergency planning meeting is Jan. 28

The next regular meeting of the Lincoln County Local Emergency Planning Committee will be held on Thursday, Jan. 28, 2004 at 7 p.m. in the Ponderosa Room of Libby City Hall. Please note the change of location.

This meeting is the sixth and final meeting of the pre-disaster mitigation (PDM) information gathering portion of public meetings, which have been held in Eureka, Troy and Libby.

The hazard analysis matrix has been distributed at previous meetings along with an explanation of the planning process. Input from this final PDM portion of public participation will be incorporated into the final plan draft for submission to Montana Disaster Emergency Services and then to Federal Emergency Management Agency

(FEMA) for final approval.

An updated draft document of the plan will be discussed and available for review.

Tentative agenda items include committee reports, community emergency response team program discussion; request members to serve on sub-committee to study and submit a written decontamination plan, which will identify equipment needs, training needs and decon protocol to best serve Lincoln County; review pre-disaster mitigation draft plan; request local public input; explain how to get information and comment on PDM on the Lincoln County web site.

The meeting is open to the public and anyone who is interested is invited to attend.

WESTERN NEWS: 12-10-03

## **BRIEFS**

### **Emergency planning group meets in Troy**

The next regular meeting of the Lincoln County Local Emergency Planning Committee will be held at 7 p.m. on Wednesday, Dec. 10, at the Troy Fire Hall.

The meeting is the continuation of several public meetings combining the LEPC with local citizens so input can be gathered and specific risks and hazards can be identified.

# County plan considers potential emergencies

By RAY STOUT

Of the Tobacco Valley NEWS

Could be another problem in the face of an earthquake or heavy downpour: the earthen dam that holds back the Eureka sewage lagoon.

That was brought up at the meeting of emergency-minded people in Eureka last Wednesday, said Marc McGill, director of the Lincoln County Emergency Management Agency.

"We weren't aware of that," McGill said, "and more than likely it's going to be included in the plan."

That plan will be known as the Lincoln County Pre-disaster Mitigation Plan. And McGill and others are looking county-wide to find the risks and hazards that demand pre-disaster attention.

Already on McGill's watch-out list for the northern part of the county were Costich and Glen Lake dams, which are also made of earthen materials. But the sewage-lagoon dam had escaped his attention.

That dam did breach at least once before, in July 1995. The town council declared it a disaster. Repairs were initially estimated to cost \$155,000.

The dams could unleash flooding if the earth shakes just right or a severe rain or snow surpasses their capacity, McGill said.

Pre-disaster mitigation will likely involve researching the inundation potential, marking the weak points and possibly shoring the dams up, he said.

Costich and Glen Lake dams already have emergency plans in place, which will probably be referred to in the plan, said McGill. The sewage-lagoon dam doesn't require one, because it's not a regulated site, he said.

Another issue in the north territory is the Canadian border, where a biological contaminant could be brought into the U.S., McGill said. Mitigating for that would likely

involve training the federal agents to recognize signs and symptoms before the afflictions enter the country.

Having a pre-disaster mitigation plan in effect will open the door for federal disaster-mitigation money, he said. It will qualify the county to apply for competitive grants from the Federal Emergency Management Agency to do various pre-disaster mitigation efforts — such as lessening the impacts of wildfire or floods — and to assist in recovery after disasters.

General kinds of disaster are fire, flood, earthquake, landslide, volcanic ash fallout (from erupting mountains in the Pacific Northwest), severe weather, drought, insect infestations, contagious disease, hazardous materials and bioterrorism, said McGill.

Eureka Mayor Craig Eaton said he's satisfied with the progress toward a pre-disaster plan. He noted his town seems less prone to catastrophe than the county's other two towns.

"What it appears is that Libby and Troy have a lot more possible disaster than we do," Eaton said. "We don't seem to have those potentials quite as bad as they do down there."

The meeting last Wednesday was Eureka's second on the topic, the purpose of which is to identify as many risks and hazards as possible. The first meeting in the town was July 23.

Still awaiting their second and final such meetings were Libby and Troy, McGill said.

The consultant working on the document is Missoula branch of Hydrometrics Inc., which is subcontracting to Arrowhead Engineering of Libby.

Despite low turnouts at the meetings, progress has been good, said McGill.

FEMA has set a deadline of Nov. 1 to submit the plan, "but they're being very flexible for us," McGill said.

# Emergency planning continues

## ■ Public input needed for countywide plan

The Lincoln County Emergency Planning Committee will meet on Wednesday, Sept. 24, at 7 p.m. in the Ponderosa Room of Libby City Hall.

Local governments will be required to have pre-disaster mitigation plans in place to receive future grants from the Federal Emergency Management Agency. Lincoln County has received a grant from the state Disaster and Emergency Services Division to develop its plan.

The meeting on Wednesday is a continuation of several public meetings in Eureka, Troy and Libby, combining the LEPC with local citizens to explain the Pre-Disaster Mitigation Planning Grant and continue the process of gathering information needed to identify risks and hazards, both natural and man-caused.

Public involvement in the planning process is critical, said Marc McGill, EMA coordinator.

"We need to get as many folks as possible to help identify as many risks as possible that we may not know about," McGill said. "We need the people to voice their concerns."

On hand to help explain the process will be Doug Parker with Hydrometrics Inc. of Missoula. Dave Cosgriff, of Arrowhead Engineering Inc. in Libby is the local representative for Hydrometrics, with whom the county has contracted to write the plan.

Michele Harmon of the LEPC has been hired temporarily by Lincoln County as the needs and risk assessment coordinator regarding Homeland Security issues. Her employment was made possible through Lincoln County's War Supplemental Grant Allocation for fiscal year 2003. She will be requesting information from various agency LEPC members.

Tentative agenda items for the meeting are:

- Committee reports;
- Explain pre-disaster mitigation concept;

FRONT PAGE - WESTERN NEWS  
WED. SEPT 24, 2003

## Planning

Continued from Page 1

- How to get information and comment on PDM on the

Lincoln County web site;

- Public input;
- Break out groups for committee planning and information gathering;
- Discuss and adopt revision of Radio Communication Guide;
- Discuss and adopt revision of Emergency Operations Plan Section 3.03 (Criminal Activity) to include terrorism and civil disobedience.

Similar meetings have been held in Eureka and Troy during the past two months.

WESTERN NEWS  
FRIDAY AUGUST 22, 2003

## EMA schedules meeting in Troy to discuss county disaster plan

The Lincoln County Emergency Management Agency will hold a public meeting at 7 p.m. Wednesday, Aug. 27, at the Troy Fire Hall to discuss the development of a countywide pre-disaster mitigation plan.

Local governments will be required to have pre-disaster mitigation plans in place to receive future grants from the Federal Emergency Management Agency. Lincoln County has received a grant from the state Disaster and

Emergency Services Division to develop its plan.

Public meetings have been scheduled in all three communities in Lincoln County. The first meeting was held July 23 in Eureka, and the third meeting will be held Sept. 24 in Libby.

At the meetings, area residents are provided with information on the planning process and asked to help identify risks and hazards specific to each community so they can be included for pos-

sible future mitigation projects.

Lincoln County has contracted with Hydrometrics Inc., an engineering firm with four offices in Montana and a local representative, to develop the plan. The firm handling the local work is Arrowhead Engineering, owned by David Cosgriff.

For more information, call the Lincoln County Emergency Management Agency at 293-6295 or send email to [lcema@libby.org](mailto:lcema@libby.org).



Thursday, July 17, 2003

## Eureka meeting to focus on proposed disaster planning

By RAY STOUT

*Of the Tobacco Valley NEWS*

**M**arc McGill wants you to think about the most likely places a disaster could hit in north Lincoln County and how to mitigate them before

they do.

McGill, director of the Lincoln County Emergency Management Agency, is in charge of developing a pre-disaster mitigation plan. And there's a meeting scheduled for Wednesday, July 23, at the Eureka Volunteer Ambulance barn at 7 p.m. to discuss how

vulnerable the area is to floods, fires, quakes or other natural disasters.

The work, part of the Pre-disaster Mitigation Program, is under the auspices of the Disaster Mitigation Act of 2000. That law replaced Project Impact, for which Lincoln County

Please see **PLANNING**, Page 12

# Planning

Continued from Page 1

was a pilot locale.

Lincoln is one of the Montana counties and tribes the state has awarded a pre-disaster planning grant. The \$10,000 is from the Federal Emergency Management Agency.

Three-fourths of that is money, and the county must match it with cash or other contributions such as donated equipment or supplies, McGill said.

The county must have its pre-disaster mitigation plan in place by Nov. 1 or it won't be allowed to apply for the larger, competitive

FEMA grants, McGill said.

Wednesday's meeting will probably be the first of two, as in the county's other communities. "It's going to give us a real good feel of where the hazards are in the county," he said. "And that's the reason for going to each community."

Legacies of Project Impact include warning sirens — two in Libby, one in Eureka and one in Troy — that blow for about one minute at 5:30 p.m. on the first Monday of the month. Another is the rerouting of a lower Parmenter Creek section to prevent flooding, McGill said.

Helping lead the discussion Wednesday will be David Cos-

griff of Arrowhead Engineering, a Libby operation subcontracted to the project's consultant, the Missoula office of Hydrometrics Inc., McGill said.

Residents should "put some thought into where they think hazards might be and the risks might be," he said. For example, perhaps the Costich and Glen Lake dams could pose hazards in an earthquake.

"We can certainly talk about these things and re-identify them and make sure we've got all the information we need for this particular plan," McGill said.

McGill can be reached at (406) 293-6295.

WESTERN NEWS

JANUARY 28, 2004

### **Emergency planning group meets Jan. 28**

The next meeting of the Lincoln County Local Emergency Planning Committee will be held at 7 p.m. on Wednesday, Jan. 28, in the Ponderosa Room of Libby City Hall.

The meeting is the sixth and final meeting of the information gathering portion of public meetings which have been held in Eureka, Troy and Libby.

For more information, call the Lincoln County Emergency Management Agency at 293-6295.





# Emergency Management Agency Lincoln County

Coordinator Marc McGill

952 E. Spruce Street • Suite 205 • Libby, Montana 59923  
Phone (406) 293-6295 • Fax (406) 293-2515 • E-mail: lcema@libby.org

11-20-03

Town of Rexford

Mr. Bill Marvel, Mayor  
142 Gateway  
Rexford, Mt. 59930

Hi Bill,

I just wanted to contact you personally to request your input regarding specific risks or hazards you may be aware of for your area. Lincoln County is in the process of developing a Pre-Disaster Mitigation Plan and we want to make certain we have covered all the bases. PDM, as it is referred to, will enable us to receive financial help in the event of a disaster or to apply for grant funds to mitigate hazards identified in our plan. You may identify hazards such as heavy fire fuels that could threaten the community, events either natural or man-caused that could interrupt your electrical or water services or access to your community in the event the road was damaged. Those types of issues are what we need to identify. If you have anything to add that concerns you, please let me know. We want to be sure all our citizens are represented in this planning process. Thank you for your time.

Sincerely,

Marc McGill, Director  
LCEMA

Ps: I don't have an e-mail address for you. Do you have one?



# Emergency Management Agency Lincoln County

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Coordinator Marc McGill

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952 E. Spruce Street • Suite 205 • Libby, Montana 59923  
Phone (406) 293-6295 • Fax (406) 293-2515 • E-mail: lcema@libby.org

August 18, 2003

To Local Media, Lincoln County

First, Thank You in advance for helping us inform the residents of Lincoln County of the importance of their participation in the Pre-Disaster Mitigation Plan. I am including some basic PDM information and a fact sheet, which describes why we feel this Plan Development is critical to Lincoln County.

On the Fact Sheet under the heading FACTS: The first 2 points listed are the motivators for the County to develop this plan. We want to be sure the public is aware of this to help encourage their attendance at the public meetings.

Lincoln County has received a grant through the Disaster and Emergency Services Division (DES), Montana Dept. of Military Affairs for this planning process and has contracted the plan development to Hydrometrics, Inc. This firm has 4 offices in Montana and a local County representative. The firm that is handling the local work is Arrowhead Engineering, Inc. David Cosgriff of Libby is the firm's owner. The first public meeting was held in Eureka on July 23, 2003, where the plan was explained and questions were answered. The next meeting will be in Troy on August 27, 2003 at 7:00 p.m. at the Troy Fire Hall where again the plan will be explained. On September 24, 2003 at 7:00 p.m., the plan will be presented in Libby at the Ponderosa Room at Libby City Hall. At these meetings, requests will be made for the residents of the respective communities to help identify Risks and Hazards specific to the community so they can be included into the planning process for possible future mitigation projects. Once all 3 communities have been given the presentation, another public meeting will be held in each community in the same order as the first, to gather the Risk and Hazard data. After the data has been compiled the contractor will complete the plan.

If you have further questions, please feel free to contact me. Thanks again.

Marc McGill

**POSTED PUBLIC NOTICE FOR PDM MEETING  
EUREKA, MT  
9-16-03**

**CITY HALL  
TOWN PUMP  
MONTANA MARKET  
EUREKA PUBLIC LIBRARY  
GWYNN LUMBER  
J.B.'S MARKET  
TOBACCO VALLEY NEWS  
NORTH COUNTY ANNEX  
REXFORD POST OFFICE  
REXFORD RV PARK**

# **PUBLIC NOTICE**

**THE LINCOLN COUNTY EMERGENCY  
MANAGEMENT AGENCY WILL BE  
CONDUCTING AN INFORMATION  
GATHERING MEETING AT THE EUREKA  
AMBULANCE BARN OCT. 22, 2003 AT 7:00PM.**

**WE NEED YOUR HELP TO IDENTIFY  
SPECIFIC RISKS OR HAZARDS THAT MAY  
AFFECT THIS COMMUNITY.**

**YOUR INPUT WILL BE INCLUDED IN  
LINCOLN COUNTY'S PRE-DISASTER  
MITIGATION PLANNING PROCESS.**

**YOU MAY ALSO COMMENT VIA E-MAIL AT  
[pdm@libby.org](mailto:pdm@libby.org)**

**OR  
PHONE AT 406-293-6295  
FAX 406-293-2515  
THANK YOU!**

**POSTED PUBLIC NOTICE FOR PDM MEETING  
TROY, MT  
12-8-03**

**STEINS IGA  
NORTHWEST MUSIC & COFFEE HOUSE  
TROY PUBLIC LIBRARY  
GAMBLES HARDWARE  
CITY HALL  
TOWN PUMP**

# **PUBLIC NOTICE**

**THE LINCOLN COUNTY EMERGENCY  
MANAGEMENT AGENCY WILL BE  
CONDUCTING AN INFORMATION  
GATHERING MEETING AT THE TROY FIRE  
HALL ON DECEMBER 10, 2003 AT 7:00PM.**

**WE NEED YOUR HELP TO IDENTIFY  
SPECIFIC RISKS OR HAZARDS THAT MAY  
AFFECT THIS COMMUNITY.**

**YOUR INPUT WILL BE INCLUDED IN  
LINCOLN COUNTY'S PRE-DISASTER  
MITIGATION PLANNING PROCESS.**

**YOU MAY ALSO COMMENT VIA E-MAIL AT  
[pdm@libby.org](mailto:pdm@libby.org)**

**OR  
PHONE AT 406-293-6295  
FAX 406-293-2515  
THANK YOU!**



PDM/  
LEPC  
MEETING MINUTES  
SEPTEMBER 24, 2003

**CALL TO ORDER**

Marc McGill called the meeting to order at 7:00p.m. in the Ponderosa Room, City Hall, Libby, on Wednesday, September 24, 2003. There were 13 people present.

**INTRODUCTIONS**

Participants introduced themselves and their organizations.

**MINUTES**

Michele Harmon read the minutes from the August 27, 2003 meeting. They were approved as read.

Marc stated that this meeting would be somewhat repetitious to previous meetings. He thanked all who attended. He introduced Doug Parker, who would explain PDM. Marc repeated "In Kind" on the sign-up sheet, stating that Lincoln County could get 25% of the dollar value from a \$10,000 grant on hours for preparation that could count as "In Kind" match for our 25%. He also stated that community members should input ideas to Doug for PDM. Marc repeated that Lincoln County is allocated funds for Risk Assessment and has hired Michele Harmon to complete the paperwork due September 30, 2003.

**COMMITTEE REPORTS**

RADIO COMMITTEE: Dale said they have not met lately, with only informal talks. They still want to resolve within the department and will wait for a reaction to the guide and proceed from there. Dale set up a webpage for the guide including a test.

Marc McGill asked for response concerning the guide--Asked if we are ready to propose that guide to the commissioners. Marc thanked Dale for putting together the CD discs to help make changes in the guide.

Daryl Anderson said he didn't see anything wrong with the guide, and Curt Jones agreed. Charlie Comer felt that the five step process should stay there. He felt that it is the final assurance that everyone was clear on the first four steps of the process. Without it, it leaves a hole where someone could key in the mic while someone else is asking for corrections. Daryl said he doesn't know anyone who uses the five-step; they are not bound by the state to use five steps. Dale agreed with Daryl saying law enforcement doesn't use it, but fire uses it effectively. Dale said that it was changed from a plan to a guide because it becomes a legal issue--miscommunications could make the county at fault. There is nothing wrong with using more than five steps--the guide doesn't limit you to four steps--only sets a minimum. Any agency could set their own requirement.

Curt said fire will continue to use five steps. He thought the guide meant that everyone uses the same plan.

Dale said most agencies we need are volunteers, so it is difficult to enforce the use of five steps.

Curt said it is no different that using ten codes. Some things they don't want you to know. That's why they scramble.

Marc called a vote. Daryl motioned to accept it as is. Dale seconded motion. No one opposed. The guide was accepted as a four step without affirm/neg at the end.

Marc said if you are already using five steps, don't drop it.

Daryl said what if someone doesn't use the five step, what do you do? How do you enforce it? Fire needs it; they are masters at it, in buildings, wearing masks, etc.

Marc showed the website for radio use. Proceed through the lesson, then take the test-20 questions, open book, multiple choice, submit to Marc's office. He will save a copy for records. Dale said Rick would put the test on the county website.

Curt asked if Cabinet View will end up with Stimson frequency.

#### **TERRORISM ANNEX COMMITTEE**

EOP updates? Daryl said the EOP used to be just criminal activity, so we added terrorist and civil disobedience to section 3.03. We also added CBRNE to tactical operations. The committee has met for the last year and a half, updating resource lists for phone numbers, etc. He saw no reason we should not approve it. Motion to approve by Tom Wood, Second by Charlie Comer.

Sandy Jackson said an illness aspect may be added to the October 28 drill using Anthrax as a secondary illness. The scenario may be a package originating in Kalispell arrives at Libby Post Office. A postal worker becomes ill with cutaneous infection. The package continues to one of the schools, possibly Asa Wood, where it becomes an inhalation problem which affects several people. Tabletop drill will include Missoula sending antibiotics to Lincoln County. This can be tied to October 28 as a secondary coincidence, or not.

#### **PDM**

Marc copied PDM website information for the group. Doug Parker from Missoula asked for people to contribute comments to the website. He explained the purpose of the PDM: 1. To get local entities to plan for disasters, 2. To receive funding, you must have a plan before the disaster occurs. State funding will be competitively based on planning. Setting priorities is necessary to aid planning. Fire and flood seem to be priorities here. we need to hear about issues not listed on the draft. Send emails to Marc if you have ideas.



Marc McGill thanked Pat Shira for her work on risk assessment in Troy. The assessment is a tool to help grant writing and funding for the future. Marc thanked all who worked on Project Impact, saying that we are well-positioned for future grants.

Dale asked what happens if there is no public comment.

Doug replied that that would make the plan defective without documentation. However, he said that the LEPC is making public comment every time we meet.

MARC said the LEPC is representative of our community and that we probably know what types of things would happen here.

Ed Levert with the Community Fire Plan said that what he is working on will fit somewhere with what LEPC has done with fire aspects.

Marc felt Ed's work would fit in with wildfire.

Ed felt the weakest part of the plan is suppression. He asked if we are covering those areas.

Marc said that fire services are not required to respond to wildfires, so that is not being addressed.

Ed said he would bring in his draft on fire planning to the next LEPC so we could see where they are. Marc added Ed's name to the email reminder list for meetings.

Tom Wood was concerned about fire people wanting to take time to participate in the October 28 drill. Marc felt whoever we can get would be fine.

Next LEPC meeting is scheduled for October 22 at 7:00 p.m. in Eureka Ambulance Barn.

The meeting was adjourned at 8:15 p.m.

# LINCOLN COUNTY - LIBBY

LEPC / PDM SIGN IN SHEET

DATE 9.24-03

First Name Ed Home Phone	Last Name Leverel Work Phone	Department Lincoln Co Nat. Fire Plan Coord. Fax	Address 5220 West. River Rd E-Mail	City Libby In Kind Value	State MT Cell #	Zip 59923
First Name Dany Home Phone 721-4058	Last Name Parker Work Phone 721-0295	Department Hydro-metries Fax 542-2612	Address 667 E Baker Hill E-Mail dparker@hydro-metries.com	City Missoula In Kind Value	State MT Cell # 949 8510	Zip 59801
First Name Charlie Home Phone (406) 243-8212	Last Name Comer Work Phone (406) 243-7251 x203	Department Working Corps of Engineers David Thompson SAR Fax	Address 850 Taylor Rd. E-Mail	City Libby In Kind Value	State MT Cell # (406) 283-1170	Zip 59923
First Name Dore Home Phone 406-293-4434	Last Name Sabine Work Phone 406-293-7327	Department Cabinet Volunteer FIRE DEPT Fax	Address 240 Leuscher Dr E-Mail	City Libby In Kind Value	State MT Cell #	Zip 59923
First Name MICHAEL Home Phone 243 8248	Last Name LANDON Work Phone 243 2711	Department CNFO Fax	Address 202 Vicks Dr E-Mail	City Libby In Kind Value	State MT Cell # 283 1508	Zip 59923
First Name Tom Home Phone 243-7618	Last Name Woods Work Phone 243-0248	Department LVFD Fax 243-8241	Address PO Box 1542 E-Mail FRONT-Town & Link	City Libby In Kind Value	State MT Cell # 243-1746	Zip 59923
First Name Curt Home Phone 243 9125	Last Name Jones Work Phone 243 7033	Department LVFD Fax 243 6294	Address P.O. Box 1796 E-Mail	City Libby In Kind Value	State MT Cell #	Zip 59923

LINCOLN COUNTY - LIBBY - 7:00 - 8:30 P.M.

DATE 9-24-03

LEPC / PDM SIGN IN SHEET

First Name Sandra	Last Name Jackson	Department Public Health	Address 418 Main Ave	City Libby	State MT	Zip 59923
Home Phone 293-4839	Work Phone 293-2660	Fax 293-9384	E-Mail	In Kind Value	Cell #	
First Name DAIE	Last Name Byrer	Department RoAD	Address 512 Calif Ave	City Libby	State MT	Zip 59923
Home Phone 6079	Work Phone 4557	Fax 9836	E-Mail Rodi@libby.org	In Kind Value 85	Cell # 1217	
First Name Pat	Last Name Shine	Department Troy Vol. Ambulance	Address 210 N 3rd St Box 641	City Troy	State MT	Zip 59935
Home Phone 404/255 5146	Work Phone 2501 257-6742	Fax 406/255 6510	E-Mail pomer@libby.org	In Kind Value 125.00	Cell #	
First Name Daryl	Last Name Anderson	Department L.C.S.O.	Address 512 California Ave	City Libby	State MT	Zip 59923
Home Phone 293-5423	Work Phone 293-4112 Ex 3	Fax 293-3171	E-Mail 1650	In Kind Value	Cell # 293-1447	
First Name Michele	Last Name Harmon	Department Libby Schools	Address 425 Blue Mountain	City Libby	State MT	Zip 59923
Home Phone 293-5524	Work Phone 293-2763	Fax	E-Mail micki@libby.org	In Kind Value	Cell # 283-1896	
First Name MARC	Last Name McGILL	Department LINCOLN Co. EMA	Address 952 E SPRUCE	City LIBBY	State MT	Zip 59923
Home Phone 293-6526	Work Phone 293-6295	Fax 293-2515	E-Mail LCEMA@LIBBY.ORG	In Kind Value	Cell # 243-1129	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	



PDM/  
LEPC Minutes  
January 28, 2004  
LIBBY.MT

Marc McGill opened the meeting at 7:00 p.m. Introductions were bypassed.

**New Business:**

Committee Reports:

**Radio Committee**-Dale Byrer-email from Flathead County discussed the interference on pink and silver. They said they could move pink to help, but couldn't do much about silver. They are authorized to broadcast on silver. Silver is for Troy, so it could be a problem. They will have a meeting in Flathead to discuss moving pink. Ambulance people fight the problem all the time.

Concerning a request for private citizens to use the guide, it says "private organizations, not private persons." Individuals could broadcast if talking to dispatch, i.e. snow cats, 4-wheelers, in an emergency. Ambulance operates on local government, so if individuals are on local, it could tie up use. Hard to control if people don't identify themselves. The group feels is best to disallow private use. Too many people could overload the system. Dale B. motioned to disallow, Daryl A. seconded.

Dale brought up the re-authorization on training. Earlier authorization has expired. Do we need to request all radio users to resubmit forms? Do we need a hard copy on file of all people authorized? Dale felt we could grandfather them in. Charlie C. felt by requiring authorization, we can get them to retake the test-hence re-train. Guide requires the organizations to be authorized. The head of each agency is required to make sure all radio users have taken the test. Craig E. has the same concern—they need to be re-authorized. Charlie motioned to re-authorize, Mike seconded.

Dale brought up the tower on Blue Mountain. We aren't sure about ownership to be able to put up a metal tower. We need to find out about leases on mountains.

Marc has been getting radio tests in on the computer. Eight hard copies have come in.

**Training Committee:** Steve L. had been chairman, but wants to resign. We don't have an immediate need to a training committee right now. Marc gets in information and can pass it along to all of us as needed. We can reinstate the committee later if needed. Marc wants to go on record as thanking Steve and the committee for all their hard work.

Marc discussed upcoming workshops. On Feb. 13 there will be a representative in Polson from Veterinary/pathology in animal diseases speaking on terrorism risks. Information is available with Marc if interested.

There will be an ICS workshop on Feb. 21-22. Marc has information on that as well.

We can get a WMD/Hazmat Train the trainer here. It is a six-hour course, awareness only. They furnish the resources to get us set up.

Planning session for Amtrak/BNSF is set to go. It will include major responders. The exercise will be held early spring/summer to go through the tunnel to teach responders how to rescue from a train.

Marc said that DNRC-controls small dams-will do a tabletop exercise for Flower Creek on Feb. 26.

**Grant Committee:** The War Supplemental and Equipment grant is up again. We were allotted \$24,500 and ended up with closer to \$50,000 in equipment, including new radios. Deadline for the new grant is April 1. Michele will help with that again. Montana's priority is PPE. We cached some equipment at St. John's Hospital. It is available for use. If EMS wants to train to use or carry it onboard, we will make that available. If Mary at St. John's needs it, she can use it.

Daryl asked if we are still planning an Emergency Response Team.

Marc replied that we ran a fair number of people through Awareness/Ops, but attendance at meetings needs to be better. Border Patrol from Eureka sound like they want to be involved. We could have forty people who want to create a team. Insurance/liability is covered under the Sheriff's office, and Daryl is supportive of a team. It would be a county thing, not CERT. The team would do DECON, but would probably not be a Hazmat team. If we can get people trained and then form a committee, they could report to the LEPC, meet quarterly. We could look at equipment, such as a DECON trailer.

Marc is fine-tuning the EOP; it is about halfway there.

Concerning DECON, we have a need to have some type of service. Maybe we should form a committee to look at DECON plans, equipment, etc. We would need volunteers to study and submit a DECON plan to serve the county. This committee should include private contractors. Mike will talk to fire agencies. Mary, or a representative from the hospital, could be on the committee. Harold from Troy Fire would be good. Merrill Taylor would be a good candidate. This committee should be hand-picked. If we can supply names, Marc will contact people.

### **Old Business:**

Enhanced Emergency Response program is carrying on. Do we know who responds to what? Has dispatch been told this? Once all that has been decided, a plan will be set down. It should be done soon. We may have to look at changing numbers to avoid confusion.

Mike asked if the Emergency Response Team and the DECON Team should be the same. Marc said that he talked to CERT people involved in this elsewhere in Montana and they don't like it; it hasn't been successful in Montana. No one really seems to be interested.

Sandy J. reported that high-speed network equipment has been ordered and is on its way. We will be able to receive and generate alerts. The concern was how people in rural areas will receive emergency information. Do we need a plan for this? It was decided that in an emergency we would mobilize door-to-door, using Search and Rescue, etc.

The Strategic National Stockpile was supposed to be done, but it isn't. Deadline is March 31; they have to develop a clinic plan. Flathead and Missoula will take on storage for us. The state needs to be aware that we can only do so much, so fast.

PDM reports that this will be their last meeting. They need to get the mapping done. The draft has been out since mid-December, but they haven't received many comments yet. The draft will go to Marc, then to the LEPC, then to the commissioners to approve it before it is sent to the state. We still need to do the mapping of the quantitative risk assessment. We also need mitigation components. The more specific we can be, the better off we are when funding comes around. We will try to cover all the issues. Emergency alert system needs a wider coverage for sirens. We need to list shortfalls so that we can be as specific as possible to show human life risks in order to get funding.

Concerning the Emergency Alert System, the FCC will not authorize a higher output for 530am.

The landslide was discussed. Mapping of where it happened before, rather than to show a specific soil type that is prone to slide. Reports on core samples had been done on Flower Creek landslide. Libby was isolated by mudslides, and highways were blocked for several days. The ground freezes early, heavy snows have no place to sink in. Dale mentioned a bridge inventory. Each foreman could give insight on landslides and bridges. Contacts are Dale B., Ron D., and Tim W. Charlie C. brought in photos of past emergencies to share with the group.

The rest of the new business was discussed under grants and training.

Marc suggested skipping Feb. and holding the next LEPC meeting in March, as long as committees continue to meet on each area.

Next meeting scheduled for March 17, 2004 in Eureka at 7:00pm at the ambulance barn. Marc will email everyone if there is no need for a meeting.

Meeting adjourned at 8:38pm.



LIBBY - HENDERSON ROOM  
 7:00 P.M.  
 8:38  
 DATE 1-28-04

LINCOLN COUNTY  
 LEPC/PDM SIGN IN SHEET

First Name Bill	Last Name WATT	Department LVFD	Address 1303 Nevada	City Libby	State MT	Zip 59923
Home Phone 293-6858	Work Phone 293-9217	Fax	E-Mail	In Kind Value	Cell #	
First Name Curt	Last Name TOMAS	Department LVFD	Address 10. Box 798	City Libby	State MT	Zip 59923
Home Phone 293-925	Work Phone 293-773	Fax 293-6244	E-Mail	In Kind Value	Cell #	
First Name Daryl	Last Name Anderson	Department Lincoln Co. SO.	Address 512 California Ave	City Libby	State MT	Zip 59923
Home Phone 293-5423	Work Phone 293-4112 Ex3	Fax 293-3171	E-Mail kcsajail@libby.org	In Kind Value	Cell # 295-1447	
First Name MARY	Last Name NELSON	Department JFH	Address 3502 LOUISIANA AVE	City LIBBY	State MT	Zip 59923
Home Phone 295-8012	Work Phone 293-0187	Fax 293-4765	E-Mail MARY.NELSON@SUS.H.M	In Kind Value	Cell #	
First Name CHRISTY	Last Name MCELANE	Department LVA	Address 55 Ave B	City Libby	State MT	Zip 59923
Home Phone 293-9857	Work Phone 293-4124	Fax 293-7187	E-Mail	In Kind Value	Cell #	
First Name Dandra	Last Name JACKSON	Department Public Health	Address 418 New Ave	City Libby	State MT	Zip 59923
Home Phone 293-4839	Work Phone 293-2660	Fax 293-9284	E-Mail looney2@libby.org	In Kind Value 1488	Cell # 261-2938	
First Name Tom	Last Name WOOD	Department LVFD	Address 80 Box 1546	City Libby	State MT	Zip 59923
Home Phone 293-7418	Work Phone 293-0248	Fax 293-8241	E-Mail twint-tom@libby.org	In Kind Value	Cell # 293-1746	

# LINCOLN COUNTY

## LEPC/PDM SIGN IN SHEET

DATE 1-28-04

First Name MICHAEL Home Phone 293-8248	Last Name LANDON Work Phone 293-7121	Department CABINET VIEW F.D.	Address E-Mail	City LIBBY In Kind Value	State MT Cell # 283-1904	Zip 59923
First Name Dale Home Phone 293-6079	Last Name BRET Work Phone 293-4557	Department Road	Address 572 Cat F Hike E-Mail Road @ libby.org	City Libby In Kind Value \$15	State MT Cell # 1217	Zip 59923
First Name Colin Home Phone 293-5101	Last Name Barnett Work Phone 293-4111	Department Troy P.D.	Address 301 Kootenai Ave E-Mail	City Troy In Kind Value	State MT Cell #	Zip 59935
First Name Charlie Home Phone 293-8212	Last Name Cowan Work Phone 293-2751 ext 213	Department US Army Corps of Eng	Address 17115 Hwy 37 E-Mail charlie.c.cowan@usace.army.mil	City Libby In Kind Value	State MT Cell # 283-1170	Zip 59923
First Name Doug Home Phone	Last Name Parker Work Phone 721-8243	Department Hydro-metries	Address 667 E Boikup E-Mail dparker@hydro-metries.com	City Missoula In Kind Value	State Cell #	Zip
First Name David Home Phone	Last Name Casper, FF Work Phone 406.293.9387	Department Arrowhead Eng, Inc	Address PO Box 843 E-Mail arrowhead@libby.org	City Libby In Kind Value	State MT Cell # 406.293.1011	Zip 59923
First Name Michelle Home Phone 293-5524	Last Name Hannon Work Phone 293-2763	Department Libby School 2	Address 425 Blue Mountain E-Mail michi@libby.org	City Libby In Kind Value	State MT Cell # 283-1886	Zip 59923



LINCOLN COUNTY

LEPC/PDM SIGN IN SHEET

DATE

1-28-04

First Name MARC	Last Name McGILL	Department EMA	Address 952 E SPRUCE	City LIBBY	State MT	Zip 59923
Home Phone 293-9074	Work Phone 293-6295	Fax 293-2515	E-Mail ICEMA@LIBBY.ORG	In Kind Value	Cell #	293-1129

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

Please Print

**LEPC/PDM Meeting**  
**Eureka, MT**  
**Ambulance Barn**

**July 23, 2003**

Marc McGill called meeting to order at 6:58 p.m.

Marc M. explained the "In Kind" funds process.

Introductions – Everybody introduced themselves along with their affiliations.

Passed around Sign-In Sheet. 24 people attended this meeting.

Marc M. explained the purpose of the meeting and combining the two groups. The LEPC with the PDM Planning group. He also explained that the PDM planning required public participation so the public was encouraged to attend this meeting. An newspaper article was published in the Tobacco Valley News on 7-16-03, announcing the meeting and encouraging public participation.

Marc M. read the minutes from the previous LEPC meeting. There were no additions or corrections to the previous minutes.

**Committee Reports:**

Grants Committee – Nobody was present from this committee to provide a report.

Training Committee – Marc M. informed the group that a date had be set for class by DES on August 2 and 3, however it may have to be postponed. Hazmat training is scheduled for September 20<sup>th</sup> and 21<sup>st</sup> in Libby. BNSF will assist with the School Evacuation training on October 28<sup>th</sup>.

Sheriff Daryl Anderson – Described that the County Emergency Response Plan was updated by changing the "Criminal Activity" section to the "Terrorism / Civil Disobedience and Criminal Activity" section. They updated the resource list. He asked for other groups to update their resource list as well.

Sandy Jackson – Emergency Health Preparedness Grant. They have met about 8 of their deliverables. There are still several holes in the plan that have to be filled. Working with Border People (e.g. Customs, etc.). Need help in that regard. Working with the State and their consultant. Hoping for an exercise sometime this fall. Mass Immunizations.

Dale Byers – Radio Committee – Working to improve this system. The training committee is working w/ them. Eureka area is getting a lot of interference from

Kalispell area. Daryl Anderson has contacted people he knows in the area. In the last meeting they asked if Terry Maki (Maki Communications) could come to the meeting because of his experience and knowledge of the County radio system. Terry attended this meeting and explained the problems and what improvements are needed in the overall system. Hoping for Money/Grants through Homeland Security. Need dollar amounts and equipment needs. A different antenna tower has been donated by the Corps of Engineers.

He gave a description of the repeater towers. Everybody was using the Sheriff's system. Got overwhelmed. Put in a new system. The new equipment went into the commercial power mountains. GE doesn't support the Master 2s.

Dale Byers – People on Radio Committee would like to see an on-going revenue system to maintain the equipment. Would like a maintenance plan. Possibly develop a user fee system for other government use.

Marc M. – Announce that the Forest Service was moving to Stage II Fire restrictions. Marc read the Stage II fire restrictions.

Marc passed out copy of Allocation letter for ODP War Supplemental Grant funds and explained that the assessment requirements are necessary to qualify for the funding.

#### **Pre-Disaster Mitigation Planning:**

David Cosgriff – He presented the Pre-Disaster Mitigation process and provided two hand-outs describing the process. The PDM planning process is necessary for communities to be eligible for Federal grants and disaster relief through FEMA. The major component is developing a detailed hazard analysis and risk assessment for the County. Public input is encouraged to help identify the hazards and evaluate the risks. The County website for PDM was also described and the group was informed that they could provide input via the website.

Marc. M – He also explained additional information related to the PDM process. We discussed other avenues to advertise the website and PDM planning process. It was suggested to look at the local television advertising stations and the radio.

The next regular LEPC / PDM meeting will be in Troy on August 27, 2003

Marc M. closed the meeting at 8:00p.m.

-- END --



LINCOLN County

EUREKA, MT.

7:00 pm - 8:00 p.m.

DATE 7-23-03

LEPC/PDM SIGN IN SHEET

First Name <del>Anderson</del> DANIEL	Last Name Anderson	Department Lincoln Co. S.O.	Address 512 California Ave	City Libby	State MT	Zip 59923
Home Phone 293-5423	Work Phone 293-4112 Ex 3	Fax 293-3171	E-Mail lcsdjoil@Libby.org	In Kind Value 42,000.00	CELL # 293-1447	
First Name Jandra	Last Name JACKSON	Department Public Health	Address 418 Main Ave	City Libby	State MT	Zip 59923
Home Phone 293-4839	Work Phone 293-2660	Fax 293-9284	E-Mail looney2@libby.org	In Kind Value 14.13 hr.	CELL # 261-2938	
First Name Marianne	Last Name ROOSE	Department County Commissioner	Address Box 2012	City Eureka	State MT	Zip 59917
Home Phone 406-882-4544	Work Phone 297-31390 297-2984	Fax 297-2767	E-Mail mroose@libby.org	In Kind Value	CELL # 293-1745	
First Name Gary	Last Name BLAZ	Department Eureka Public Schools	Address PO Box 137	City Eureka	State MT	Zip 59917
Home Phone 297-7878	Work Phone 297-5637	Fax 297-2644	E-Mail gblaz@eureka.k12.mt.us	In Kind Value \$20.00	CELL # 250-2283	
First Name DALE	Last Name BYRER	Department ROAN	Address 512 California Ave	City Libby	State MT	Zip 59923
Home Phone 293 6079	Work Phone 293-4557	Fax 793-9836	E-Mail ROAN1@libby.org	In Kind Value \$15	CELL # 293-1217	
First Name Dale Sabine	Last Name Sabine	Department Cabinet View Fire Dept	Address 240 Leuschner Dr	City Libby	State MT	Zip 59923
Home Phone 293-4434	Work Phone 293-7327	Fax	E-Mail Sabine@libby.org	In Kind Value 15.00	CELL #	
First Name Chrystal	Last Name Stacy	Department Eureka Dispatch	Address Box 34	City Eureka	State MT	Zip 59917
Home Phone 889 5858	Work Phone 297-2121	Fax 296-2553	E-Mail Chrystal@Eureka.net	In Kind Value 15.00	CELL # 261-4514	

Please Print

# LEPC/PDM SIGN IN SHEET

DATE 7-23-03

First Name David	Last Name LYONS	Department EOD	Address 188 Hwy 93 N E-Mail	City Eureka	State MT	Zip 59917
Home Phone 297-2986	Work Phone 296-2953	Fax 296-2633		In Kind Value	CELL #	
First Name JERRY	Last Name BYNUMER	Department EVPD	Address Box 271 E-Mail	City EUREKA	State MT	Zip 59917
Home Phone 297-2887	Work Phone	Fax		In Kind Value	CELL #	
First Name JACK	Last Name NEIBSON	Department EVPD	Address Box 1434 E-Mail	City Eureka	State MT	Zip 59917
Home Phone 297-2304	Work Phone	Fax 297-2704		In Kind Value	CELL #	
First Name JACK	Last Name TESIENOWSKI	Department EVPD	Address Box 685 E-Mail JACK@MONT59917	City Eureka	State MT	Zip 59917
Home Phone 297-2880	Work Phone	Fax		In Kind Value	CELL #	
First Name RON	Last Name Hvizdak	Department EVPD / USFS	Address 3990 Spine Lake Rd. E-Mail hviz@inter-bel.net	City Eureka	State MT	Zip 59917
Home Phone 889-3791	Work Phone 296-7173	Fax		In Kind Value	CELL #	
First Name JESS	Last Name SANDERS	Department LCSO	Address PO Box 124 E-Mail	City Eureka	State MT	Zip 59917
Home Phone 297-2121	Work Phone 297-2121	Fax 296-2555		In Kind Value	CELL #	283-1751
First Name BRENON	Last Name JOHNSON	Department Eureka Police Dept	Address PO Box 382 E-Mail CUFFS@STATE270@hotmail.com	City Eureka	State MT	Zip 59917
Home Phone 297-7848	Work Phone 297-2121	Fax 296-2555		In Kind Value \$4500	CELL #	N/A



LEPC/PDM

LINCOLN Co. SIGN IN SHEET

DATE 7-23-03

First Name Lear	Last Name Maki	Department COMMUNICATIONS Fax 406/293-6784	Address 8259 FM ROAD E-Mail Maki@libco.org	City LIBCO In Kind Value \$100	State MT CELL # 293 8559	Zip 59928
Home Phone 406/293-7140	Work Phone 406/293-6784					
First Name Jim	Last Name Hannay	Department EUF D Fax 406-297-7266	Address P.O. Box 79 E-Mail jim@eureka.vsl.net	City Eureka In Kind Value \$100	State MT CELL # 252-7039	Zip 59917
Home Phone 406-297-2672	Work Phone 406-297-9083					
First Name Ron	Last Name MORGAN	Department EUREKA FIRE Fax 406-297-3114	Address Box 548 E-Mail EUF D AT INTERBEL.NET	City EUREKA In Kind Value \$100	State MT CELL # —	Zip 59917
Home Phone 406-297-2018	Work Phone 406-297-3114					
First Name Jou	Last Name RADISH	Department EUF D Fax 297 3114	Address Box 1356 E-Mail EUF D AT INTERBEL.NET	City EUREKA In Kind Value \$100	State MT CELL # —	Zip 59917
Home Phone 297 3325	Work Phone 297 3114					
First Name Dennis	Last Name RADISH	Department EUREKA Vol. Fire Dept. 4 Eureka Ambulance Fax 297-2833	Address P.O. Box 1735 E-Mail EUF D AT INTERBEL.NET	City EUREKA In Kind Value \$100	State MT CELL # 253-2208	Zip 59917
Home Phone 297-2208	Work Phone 297-2833					
First Name Elyer	Last Name Adams	Department EUF D Fax 297 2675	Address 9299 Hwy 45935 E-Mail —	City Eureka In Kind Value \$100	State MT CELL # —	Zip 59917
Home Phone 882-4775	Work Phone 297 2675					
First Name John	Last Name Hannay	Department Eureka Volunteers Fire Dept Fax 297-2244	Address Box 1261 E-Mail bjrsky1@eureka.vsl.net	City Eureka In Kind Value \$100	State MT CELL # —	Zip 59917
Home Phone 297-2373	Work Phone 297-2623					

Please Print

LINCOLN COUNTY

LEPC / PDNA SIGN IN SHEET

DATE 7-23-03

First Name IAN	Last Name Jeffcoat	Department LINCOLN PARISH	Address P.O. Box 670	City EUREKA	State MT	Zip 59917
Home Phone 889-3587	Work Phone 297-2121	Fax 889-3587	E-Mail ELVIS@LIBBY.ORG	In Kind Value \$4500	Cell # 261-6297	
First Name David	Last Name Cosgrove	Department Arrowhead Eng, Inc.	Address P.O. Box 843	City Libby	State MT	Zip 59923
Home Phone 406-293-9387	Work Phone 293-9387	Fax 293-8922	E-Mail arrowhead@libby.org	In Kind Value	Cell # 293-1011	
First Name MARC	Last Name McGILL	Department LC EMA	Address 952 E. SPRUCE	City LIBBY	State MT	Zip 59923
Home Phone 293-6526	Work Phone 293-6295	Fax 293-2515	E-Mail LCEMA@LIBBY.ORG	In Kind Value 1500	Cell # 293-1129	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

Please Print

**LEPC/PDM Meeting**  
**Eureka, MT**  
**Ambulance Barn**

**October 22, 2003**

Marc McGill called meeting to order at 7:05 p.m.

Introductions – Everybody introduced themselves along with their affiliations.

Passed around Sign-In Sheet

**Committee Reports:**

Grants Committee – Marc McGill provided an update.

Received an equipment grant in the amount of \$43,612.28 for personal protective equipment. Received another sum of \$27,204 for communication equipment. Packages are being shipped. Another equipment grant will be coming up for application next year.

Received an exercise grant that will help pay costs for the practice drill scheduled for next week.

A planning grant for \$2,839 was received for updating the Emergency Operations Plan.

A War Supplemental Grant is still on-going.

A PDM Grant was received in the amount of \$10,000 with 25% in County match (In Kind values are helping offset the County match). This grant is paying for the preparation of the PDM plan for Lincoln County.

DNRC provided a grant to the local fire departments for a total of \$18,000.

Training Committee – Marc M. informed the group that the emergency exercise is scheduled for October 28, 2003. It will involve an anhydrous ammonia release from a railroad car resulting from some tampering by two individuals. The individuals will have tried to blow up the car.

Radio Committee – Dale Byers discussed the new radio guide that has been prepared for use. A copy of the radio guide signed by the Commissioners was passed out to the attendees.



Sandy Jackson – Emergency Health Preparedness Grant. Part of the work planned for next year is to formalize agreements with various agencies on how to deal with health emergencies.

Marc M. – Passed out a set of standard operating procedures for dispatching emergency personnel and emergency vehicles

Tony Bacon – Provided a description of a new designation system for consideration by the County. It would simplify the existing system of identifying types of emergency equipment responding to situations and the personnel responding to emergencies. Tony provided a handout describing the system.

#### **Pre-Disaster Mitigation Planning:**

Doug Parker (Hydrometrics) and David Cosgriff (Arrowhead Engineering, Inc.) – Described where we are in the PDM planning process and report preparation. Doug also asked for specific information related to the matrix and the types of hazards from the attendees. The group provided several new scenarios for inclusion in the matrix.

Daryl Anderson – Border Issues, especially related to possible bio-terrorism or contagious disease. He also mentioned the need for a quarantine facility at the border.

Charlie Comer – Landslide issue descriptions, Utility interruption, Bridge failure, Mass Casualty, Ash Fallout.

Sandy Jackson – Describe the Public Health Emergency in more detail, contagious disease and bio-hazards. She also talked about the severity of smoke inhalation.

Dean Herried – Discussed the wild land fire issues, damage to forest land, etc.

Eureka Mayor, Craig Eaton – Discussed the sewer lagoon above Eureka, it consists of an earthen dam.

Miscellaneous Comments – Add crop loss to flood and dam failures (forest lands a crop?). Road crew provided several comments on Likelihood of Occurrence and Severity. Add damage to homes and buildings to landslide hazards, add Injury or Loss of Life to many of the Hazard Category – Potential Impacts.

Marc. M – He also explained additional information related to the PDM process.

The consultants will be pulling together a draft plan for review by the public and LEPC members prior to the next meeting in December.

The next meeting was tentatively scheduled for December 10, 2003 at 7:00 p.m.  
The location will be relayed later, but it will likely be in Troy.

Marc M. closed the meeting at 8:53 pm

-- END --

First Name Muriel	Last Name Stacy	Department Eureka Dispatch	Address Box 34	City Eureka	State MT	Zip 59917
Home Phone 889-5858	Work Phone 297-2121	Fax 296-2555	E-Mail Muriel@Interlink.net	In Kind Value	CELL # 261-8574	
First Name Charlie	Last Name Cramer	Department Army Corps of Engineer David Thompson S&R	Address 850 Taylor Rd	City Libby	State MT	Zip 59923
Home Phone 293-8212	Work Phone 293-7751 ext 217	Fax	E-Mail Charlie.Cramer@USACE.Army.MIL	In Kind Value	CELL # 283-1170	
First Name DAIE	Last Name BYRER	Department County ROAD	Address 512 Colt Ave	City Libby	State MT	Zip 59923
Home Phone 293-6074	Work Phone 293-4537	Fax	E-Mail Rudi@Libby.org	In Kind Value \$15	CELL # 293-1217	
First Name DAEVI	Last Name Anderson	Department L.C.S.O.	Address 512 California Ave	City Libby	State MT	Zip 59925
Home Phone 293-5423	Work Phone 293-4112 Ex 3	Fax 293-3171	E-Mail lcsajail@Libby.org	In Kind Value	CELL # 293-1447	
First Name STEVE	Last Name SHORT	Department LCSO	Address 512 CALIFORNIA AVE	City LIBBY	State MT	Zip 59925
Home Phone 293-4112	Work Phone 297-2121	Fax 296-2555	E-Mail STEVE.SCOTT@LIBBY.ORG	In Kind Value	CELL # NONE	
First Name Sandra	Last Name Jackson	Department Public Health	Address 418 Main Ave	City Libby	State MT	Zip 59923
Home Phone 293-4839	Work Phone 293-2660	Fax 293-9284	E-Mail lcsajail@Libby.org	In Kind Value 14.88	CELL # 261-2958	
First Name RON	Last Name MORGAN	Department EUREKA FIRE Dept	Address Box 623	City EUREKA	State MT	Zip 59907
Home Phone 297-2018	Work Phone 297-3114	Fax	E-Mail	In Kind Value	CELL #	



LEPC/PDM

SIGN IN SHEET

DATE 10-22-03

First Name Stacy	Last Name Erickson	Department Cris-Arm Search & Rescue	Address P.O. Box 161	City Lewick	State MT	Zip 59917
Home Phone 297-2183	Work Phone	Fax	E-Mail stacy@cris-arm.net	In Kind Value	CELL #	
First Name MICHAEL	Last Name LANDON	Department CABINET VIEW F.D.	Address	City LIBBY	State MT	Zip 59923
Home Phone 293-8248	Work Phone	Fax	E-Mail mldandone@libby.org	In Kind Value 2500	CELL #	283-1508
First Name Dale	Last Name Sabine	Department CABINET VIEW FD	Address	City Libby	State MT	Zip 59923
Home Phone 293-4434	Work Phone	Fax	E-Mail Sabine@Libby.org	In Kind Value 2500	CELL #	
First Name Tom	Last Name Parker	Department FISHER RIVER FD	Address	City Libby	State MT	Zip 59923
Home Phone 293-2598	Work Phone 293-3907	Fax	E-Mail mrgba@libby.org	In Kind Value	CELL #	283-1118
First Name DEAN	Last Name Herrid	Department Fisher River Fire	Address	City Libby	State MT	Zip 59923
Home Phone 293-7115	Work Phone 293-3907	Fax	E-Mail fisher.river@montana.com	In Kind Value	CELL #	293-1939
First Name Dana	Last Name Parker	Department	Address	City Missoula	State MT	Zip 59801
Home Phone	Work Phone 406-721-8243	Fax	E-Mail dparker@hydro.com	In Kind Value	CELL #	949-8510
First Name David	Last Name Cassidy	Department	Address P.O. Box 843 - Libby	City Libby	State MT	Zip 59923
Home Phone	Work Phone 406-293-9387	Fax 406-293-9922	E-Mail cassidyhead@libby.org	In Kind Value	CELL #	293-1011

Please Print

## LEPC/PDM SIGN IN SHEET

DATE 10-22-03

First Name Craig	Last Name Eaton	Department Town of Eureka	Address PO Box 564	City Eureka	State MT	Zip 59917
Home Phone 406-297-2943	Work Phone 406-297-2341	Fax 406-297-2956	E-Mail centon@inberbel.net	In Kind Value	Cell # 406-253-4166	
First Name Shirley	Last Name Buesch	Department Troy Area Dis.	Address Box 635	City Troy	State MT	Zip 59935
Home Phone 406-295-9127	Work Phone 406-295-4111	Fax 406-295-5391	E-Mail naabones71@yahoo.com	In Kind Value 9.00	Cell #	
First Name Marc	Last Name McGill	Department EMA	Address 952 E. Spruce	City Libby	State MT	Zip 59243
Home Phone 293-6526	Work Phone 293-6295	Fax 293-2515	E-Mail lce@libby.org	In Kind Value	Cell # 293-1129	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

**PDM/**  
**LEPC**  
**MEETING MINUTES**  
**AUGUST 27, 2003**

**CALL TO ORDER**

Marc McGill called the meeting to order at 7:00 p.m., in the **Troy V** Volunteer Fire Department Hall on Wednesday, August 27, 2003.  
There were 20 people present.

**INTRODUCTIONS**

Participants introduced themselves and what organization they represent.

**MINUTES**

Tammy Lauer read the minutes of the last meeting. They were approved as read.

Marc explained that the meeting would be a repetitious of the Eureka meeting. He explained that LEPC program and that it is necessary for Grants. He explained "In Kind" on sign up sheet and explained that there is a \$10,000.00 Grant and Lincoln County can get 25% of the dollar value on hours for preparation that could count as "in Kind" match for our 25%.

**COMMITTEE REPORTS**

**GRANT COMMITTEE:** Michelle Harmon talked about meeting with departments to complete her Homeland Security Grant II. She went over her questionnaire and ask about scheduling meetings with Grant Committee. The next meeting of the Grant Committee will be 9-8-03 at 7:00 at the LVA Barn. Marc stated that he received a letter that said that our Equipment Grant is mostly approved-need to get OP certified people. Daryl Anderson discussed that option and who is involved in the classes coming up on 9-20 and 9-21. Curt Jones went over a headcount for the Haz Mat class in September.

**TERRIORISM ANNEX COMMITTEE:** Daryl reported that he would like to meet and discuss new additions and new resources. He ask is we would replace the old chapter, and was told yes. Next meeting of that committee is 9-10 at 7:00 at the SAR Barn.

**HEALTH SECTION OF TERRIORISM COMMITTEE:** Sandy Jackson discussed a grant that has barely been touched by Montana so far for Public Health. She is on the last stretch and has turned in all but three of deliverables. Also discussed deficiencies in Boarder Health Safety.

**RADIO COMMITTEE:** Daryl reported that they have had no luck with Flathead because they are very busy with fires. Suggested that he will drive down and talk to them after fire season. Marc passed out new Lincoln County Radio Communication Guide to each agency.

**NEW BUSINESS**

**Discussion of PDM** Planning Group. Doug Parker from Hydrometrics explained that a PDM was needed for any disaster grants and that money is available for wildland fires for instance. He stated that it is the public who helps set the priorities. He stated that it is important to get people informed and that Public Participation is very important. Dave Cosgriff for PDM stated that if we have no plan we receive no money and no FEMA for post disaster. A PDM can reduce the affects of future disasters and identify impacts. He passed out a draft of the risk sheet for

reactions. Passed out a copy of the website too. Marc explained that PDM was derived from Project Impact and was partly responsible for us having the warning sirens.

Next LEPC meeting is September 24, 2003, at 7:00 p.m. at the Ponderosa Room in Libby.

The meeting was adjourned at 8:15 p.m.



LINCOLN COUNTY - TROY UFD  
LEPC / PDM SIGN IN SHEET

DATE 8-27-03

First Name Michele Home Phone 293-5524	Last Name Harmon Work Phone 293-2763	Department Libby Public School Fax	Address E-Mail 425 Blue Mountain mickie@libby.org	City In Kind Value Libby	State Cell # MT 283-1886	Zip
First Name Marlene Home Phone 293-3480	Last Name Kelsch Work Phone 293-5802	Department Libby Public Schools Fax 293-3972	Address E-Mail 1426 Renardville Kelschm@libby.k12.mt.us	City In Kind Value Libby	State Cell # MT 283-1459	Zip
First Name Sandra Home Phone 293-4839	Last Name Jackson Work Phone 293-2660	Department Public Health Fax 293-9284	Address E-Mail 418 Main Ave looney2@libby.org	City In Kind Value Libby	State Cell # MT 261-2938	Zip
First Name Shirae Home Phone 406-295-9127	Last Name Buesch Work Phone 406-295-4111	Department Troy Area Dispatch Fax	Address E-Mail 84635 naebones71@yahoo.com	City In Kind Value Troy	State Cell # MT 59935	Zip
First Name Brian Phillips Home Phone 406 889 5536	Last Name Phillips Work Phone 296 2938	Department US Border Patrol Fax	Address E-Mail P6 Box 909	City In Kind Value Eureka	State Cell # MT 59917	Zip
First Name Daryl Home Phone 293-	Last Name Anderson Work Phone 293-4112 x3	Department L.C.S.O. Fax 293-3171	Address E-Mail 512 California Ave lcsajail@libby.org	City In Kind Value Libby	State Cell # MT 293-1447	Zip
First Name Steve Home Phone 293-4477	Last Name Lower Work Phone 293-9207	Department LUFD Fax	Address E-Mail PO Box 796	City In Kind Value Libby	State Cell # MT 283-1883	Zip



LINCOLN COUNTY - TROY VFD

LEPC / PDM SIGN IN SHEET

DATE 8-27-03

First Name Tammy	Last Name Loud	Department EMA	Address 1004 Nevada Ave	City Libby	State MT	Zip 59923
Home Phone 293-6677	Work Phone 293-7771	Fax 293-3236	E-Mail Tammy-EMA@hotmail	In Kind Value	Cell #	293-0606
First Name Bob	Last Name Morik	Department Bill Lake VFD	Address 12624 Bull Lake Rd.	City Troy	State MT	Zip 59935
Home Phone 295-1807	Work Phone	Fax	E-Mail BLMORCK@Libby.org	In Kind Value 30 mi. to mt. libby. 96	Cell #	
First Name Eric	Last Name Greeson	Department Troy City	Address P.O. Box 1126	City Troy	State MT	Zip 59935
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name Roy	Last Name GILLIGAN	Department Troy Ambulance	Address PO Box 303	City Troy	State MT	Zip 59935
Home Phone 295-2903	Work Phone 295-4811	Fax 295-4827	E-Mail germans@libby.org	In Kind Value 10 mi	Cell #	
First Name Doug	Last Name Parker	Department Hydraulics	Address 607 E. Bakell	City Missoula	State MT	Zip 59801
Home Phone 406-721-8243	Work Phone	Fax	E-Mail 2parker@supremacy.com	In Kind Value	Cell #	
First Name David	Last Name Cosgroff	Department Arrowhead Eng. Inc.	Address P.O. Box 843	City Libby	State MT	Zip 59923
Home Phone 406-293-9387	Work Phone	Fax 293-8922	E-Mail arrowhead@libby.org	In Kind Value	Cell #	
First Name Curt	Last Name TONES	Department Libby VFD	Address P.O. Box 796	City Libby	State MT	Zip 59923
Home Phone	Work Phone 293-7733	Fax 293-6294	E-Mail	In Kind Value	Cell #	

Please Print

LINCOLN COUNTY - TROY VFD

LEPC/PDM SIGN IN SHEET

DATE 8-27-03

First Name	Last Name	Department	Address	City	State	Zip
Dave	Sabine	Cabinet View Vol Fire	240 LEUSCHER	Libby	MT	59923
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
293-4434	293-7327		Sabine@Libby.org	2500		
First Name	Last Name	Department	Address	City	State	Zip
CHAGUE	McFARLANE	Libby Vol Ambulance	55 Ave B	Libby	MT	59923
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
293-9857	293-4124	293-7187		1000		
First Name	Last Name	Department	Address	City	State	Zip
MARC	McGILL	EMA	952 E. SPRUCE	Libby	MT	59923
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
293-6526	293-6295					
First Name	Last Name	Department	Address	City	State	Zip
initial	Whitely	Troy Police Dept.	P.O. Box 823	Troy	MT	59923
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
295-1508	295-4111	295-5921	lookouts@libby.org	950-		
First Name	Last Name	Department	Address	City	State	Zip
CLAY	COKE	Libby Police Dept.	605 MINOR AVE.	Libby	MT	59923
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
293-4802	293-3343	(406) 293-4090	lpd@libby.org	2500		
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name	Last Name	Department	Address	City	State	Zip
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	

**LEPC/PDM Meeting**  
**Troy, MT**  
**Fire Station**

**December 10, 2003**

Marc McGill called meeting to order at 7:05 p.m.

Introductions – Everybody introduced themselves along with their affiliations.

Passed around Sign-In Sheet

**Committee Reports:**

Grants Committee – Marc McGill provided an update.

Marc McGill reminded the LEPC that needs have to be made known for equipment and/or training.

Training Committee – Tom Wood had looked into decontamination information. He noted that privacy could be an issue if decontamination becomes necessary. Marc M. provided some preliminary information on the CERT program, or Community Emergency Response Team. He also noted that funding was available for this program.

The October 28, 2003 exercise was discussed and we are waiting on input from schools. The final report on the exercise will be completed when school reports are compiled.

A planning meeting for summer '04 training and Flathead Tunnel Emergency Response with AmTrak and BNSF is currently scheduled on February 18, 2004 at 9:00 am.

Radio Committee – Dale Byrer noted that they had met last week and interference from Flathead County is still a major priority. Options are still being considered to deal with this problem.

He also noted that the wooden pole on Blue Mountain may need to be replaced with a metal pole. They are getting bids to do this work at this time.

Also, on-line training is available for Radio training.

Terrorism/Annex – EOP is being updated. Marc M. will work on minor updates and then review major updates with the group for discussion. The current grant



for planning has been extended until Jun 2004. The printing of 100 copies of the updated EOP has been prepaid due to the uncertainty of the grant extension.

Sandy Jackson – Public Health  
Mary Nelson – St. John's Hospital

Discussed security issues at the hospital if the hospital has to be locked down. Also talked about hospital's ventilation system and whether or not the emergency room has a separate ventilation system. She also discussed the need for some type of decontamination trailer that would afford some privacy and winter-time operation ability. The possibility of installing a High-speed Alert Network for the County is being discussed. This would allow the County to receive health related alerts as soon as they become available from the appropriate agencies.

The County Commissioners (John Konzen and Marianne Roose) mentioned that the enhanced 911 funding had been approved. This will result in the detailed mapping of the County using GPS.

Tony Bacon – Provided a description of a new designation system for consideration by the County Fire agencies. It would simplify the existing system of identifying types of emergency equipment responding to situations and the personnel responding to emergencies. Tony provided a handout describing the system.

#### **Pre-Disaster Mitigation Planning:**

David Cosgriff (Arrowhead Engineering, Inc.) – Described where we are in the PDM planning process and report preparation. A draft plan was provided at the meeting and the group was informed that the plan is available on-line at the County's website. Input on the plan was requested from the group. The following items were noted during the discussion.

Large water tank located above the schools in Troy and Eureka.

Domestic water supply for Troy is provided by electric, submersible pumps.

Small airports could provide safety risks and should be considered.

The Lake Creek Dam in Troy was mentioned as a potential hazard.

The Glen Lake Irrigation District and Costich Dam near Eureka was mentioned as a potential hazard.

The area of Midvale in Eureka was mentioned as a hazard due to the density of population and the individual wells with septic systems.

The consultants will continue to finalize the plan for review by the public and LEPC members prior to the next meeting in January.

The next meeting was tentatively scheduled for January 28, 2004 at 7:00 p.m.  
The location will be at the Ponderosa Room (City Hall) in Libby.

Marc M. closed the meeting at 8:43 pm

-- END --

TROY FIREHALL: START - 7:00 P.M.  
END - 8:45 P.M.

LINCOLN COUNTY

LEPER/PDM SIGN IN SHEET

DATE 12-10-03

First Name Troy	Last Name CLARK	Department TVFD	Address PO BOX 1000	City TROY	State VT	Zip 59933
Home Phone	Work Phone	Fax	E-Mail	In Kind Value	Cell #	
First Name Tom	Last Name Ward	Department LVFD	Address PO Box 1546	City Libby	State MT	Zip 59923
Home Phone 293-7618	Work Phone 293-0248	Fax 293-8241	E-Mail Erin-tom@clark.com	In Kind Value	Cell #	293-1746
First Name Mitch	Last Name Ward	Department Troy PD	Address PO Box 223	City Troy	State VT	Zip 59923
Home Phone 295-1528	Work Phone 295-4111	Fax 295-5421	E-Mail lookout@libby.org	In Kind Value	Cell #	
First Name DALE	Last Name Byrnes	Department RCAO	Address 512 Cent. Ave	City Libby	State MT	Zip 59923
Home Phone 743-6079	Work Phone 293-4057	Fax	E-Mail RCAO@libby.org	In Kind Value 515	Cell # 293-1217	
First Name Charlie	Last Name Comer	Department DT SAR Libby Dam Project	Address 850 Taylor Rd	City Libby	State VT	Zip 59923
Home Phone 293-8212	Work Phone 293-7751 ext 213	Fax	E-Mail charlie@comer.org	In Kind Value	Cell # 283-1170	
First Name Mike	Last Name Pattic	Department TVFD	Address PO Box 442	City Troy	State MT	Zip 59935
Home Phone 295-9463	Work Phone 283-1309	Fax	E-Mail	In Kind Value	Cell # 283-1309	
First Name Tess	Last Name Sanders	Department Lincoln County Sheriff	Address 16 Delaney Ave	City Eureka	State MT	Zip 59917
Home Phone 416-882-4145	Work Phone 416-297-212	Fax 416-296-2555	E-Mail 1605605@yahoo.com	In Kind Value	Cell #	



LINCOLN COUNTY  
LEPC / PDM SIGN IN SHEET

DATE 12-10-03

First Name ROB Home Phone 809-3912	Last Name BUTCHART Work Phone	Department CAN-AM SEMAPHORE Fax	Address P.O. Box 76 E-Mail rjbutchart@telecom.net	City ELK In Kind Value	State MT Cell #	Zip 59417
First Name Pat Home Phone 295-5146	Last Name Shiner Work Phone 2081 267-6742	Department Troy Vol. Ambulance Fax	Address PO Box 640 E-Mail pshiner@us.fed.us	City Troy In Kind Value	State MT Cell #	Zip 59935
First Name Dean Home Phone 293-7115	Last Name Herrick Work Phone 293-1939	Department Fisher River Fire Fax	Address 138 Upper Thompson Rd E-Mail fisherriver@mail.com	City Libby In Kind Value	State MT Cell #	Zip 59923
First Name TONY Home Phone 293-2598	Last Name PACON Work Phone	Department FISHER RIVER FIRE Fax	Address 132 EDGEWATER LANE E-Mail TTPACON@FISHERRIVERFIRE.COM	City Libby In Kind Value	State MT Cell #	Zip 59923
First Name Andrea Home Phone 293-4837	Last Name TACKSON Work Phone 293-2660	Department Public Health Fax 293-9284	Address 418 Main Ave E-Mail looney@libby.org	City Libby In Kind Value \$14.88	State MT Cell # 261-2938	Zip 59923
First Name JACK Home Phone 406-295-4183	Last Name TEMPLE JR Work Phone	Department Troy FIRE Fax	Address PO Box 827 E-Mail	City TROY In Kind Value	State MT Cell #	Zip 59935
First Name John Home Phone 295-4261	Last Name KONZEN Work Phone 293-7781 or 210	Department County Commis- Troy Fire Fax 293-8577	Address PO Box 449 Troy E-Mail jkonzen@libby.org	City Troy In Kind Value	State MT Cell # 293 1222	Zip 59935

Lincoln County  
LEPC / PDM

SIGN IN SHEET

DATE 12/10/03

First Name Marianne	Last Name Roose	Department County Commission	Address Box 3013	City Eureka	State MT	Zip 59917
Home Phone 406-882-4544	Work Phone 406-297-3139	Fax 406-297-2767	E-Mail mrose@libby.org	In Kind Value	Cell # 406-297-1775	
First Name Craig	Last Name Eaton	Department Town of Eureka PD	Address PO Box 313	City Eureka	State MT	Zip 59917
Home Phone 406-297-2943	Work Phone 406-297-2341	Fax 406-297-2857	E-Mail ceaton@interbel.net	In Kind Value	Cell # 406-253-4166	
First Name David	Last Name Cosgriff	Department Arrowhead Eng. Inc	Address Box 843	City Libby	State MT	Zip 59923
Home Phone 406-293-8923	Work Phone 406-293-9387	Fax 406-293-8922	E-Mail arrowhead@libby.org	In Kind Value	Cell # 293-1011	
First Name Daryl	Last Name Anderson	Department Lincoln Co S.O.	Address 512 California Ave	City Libby	State MT	Zip 59923
Home Phone 293-5423	Work Phone 5406 293-4112 Ex 3	Fax 293-3171	E-Mail lcsdlibby@aol.org	In Kind Value	Cell # 293-1447	
First Name Clayton	Last Name Coker	Department Libby P.D.	Address 605 Mineral Ave	City Libby	State MT	Zip 59923
Home Phone 293-4800	Work Phone 293-3343	Fax 293-4090	E-Mail lpc@libby.org	In Kind Value	Cell # 293-1644	
First Name Mary	Last Name Nelson	Department S&H ER MGR	Address 350 LOUISIANA AVE	City LIBBY	State MT	Zip 59935
Home Phone	Work Phone 293-0187	Fax 293-4765	E-Mail MARY.NELSON@S&H.COM	In Kind Value	Cell #	
First Name Marc	Last Name McGill	Department EMA	Address 952 E. SPRUCE	City LIBBY	State MT	Zip 59923
Home Phone 293-9074	Work Phone 293-6295	Fax 293-2515	E-Mail LEMA@LIBBY.ORG	In Kind Value	Cell # 293-1129	